CONSTRUCTION NEWS

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CONTENTS.

CONSTRUCTION NEWS: 21
Railways 21
Electric Railways 22
Light and Power Plants 22
Bridges 23
Buildings 24
Water Supply and Irrigation 25
Sewerage 25
Garbage Disposal 25
Streets and roads 26
Manufacturing Plants 26
Miscellaneous Contracts 27
U. S. Possessions and Cuba 27
Plans and Specifications on File 27
List of Contracts Pending 27
EXAMINATIONS 27
INDUSTRIAL NOTES 27
TRADE PUBLICATIONS 27
PROPOSALS 28

(List of Contracts Pending, and the list of Plans and Specifications on file at the office of Engineering News, will be found on the last page of this Supplement.)

RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ALBERTA & GREAT WATERWAYS.—Contracts have been let, it is stated, to the McINNIS LUMBER CO., Edmonton, Alta., for 340,000 ties, 500,000 ft. bridge timber, 150,000 ft. culvert timber and 140,000 fence posts for the first 100 miles; and for similar work on 50 miles of line to JAMES WALKER, Fort Saskatchewan, Alta. Work was started in December at a point 35 miles north of Edmonton. The company was organized last year with a capital of $7,000,000 and office at Edmonton, to build from Edmonton northeasterly to a point near the west end of Lac LaBiche, thence north to a point near Fort McMurray, on the Athabaska River, with a branch from this line near the west end of Lac LaBiche to the east end of the lake, and a number of other branches, a total of about 300 miles. Noted on Jan. 13.

ATCHISON, TOPEKA & SANTA FE.—Contract to furnish approximately 350,000 tons of crushed granite to the Santa Fe, to be used in ballasting parts of its valley line between Los Angeles and San Francisco, has been entered into by EVANS & CHAPPELLE, Laughlin Bldg., Los Angeles, Cal. The granite will be quarried and crushed at points on the Merced River and will be transported over the Yosemite Valley railway to Merced, where it will be delivered to the Santa Fe. Extensive crushing plants will be installed. Delivery will be begun as soon as spring opens, and will be at the rate of not less than 20 cars daily.

BALTIMORE & OHIO.—The Somerset & Cambria branch of the Baltimore & Ohio R. R. is to be double-tracked, giving that company through train service between Johnstown, Pa., and Washington, D. C., according to the Pittsburg "Post." Plans for laying the additional tracks have been completed and are now in the hands of the executives in Baltimore. This work is included in the 1910 construction program, which is being considered by the executives of the Baltimore & Ohio, and which will mean an expenditure of more than $50,000,000. To make possible the through service from Johnstown it will be necessary to construct the extension of the Quemahoning branch into the Benscreek coal field in Somerset County. It is expected that definite announcement will be made within the next few weeks regarding the Baltimore & Ohio's construction program for this year and the amount of money that will be necessary to carry out the plans already approved.

BUFFALO, ROCHESTER & EASTERN.—The Public Service Commission, Second District, Albany, N. Y., has granted a rehearing to the Buffalo, Rochester & Eastern Railroad Co. in its application for a certificate of public convenience and a necessity and for permission to commence construction and exercise franchises. The application for such certificate and permission was denied by the commission on March 15, 1909, and the company filed an application for a rehearing on Dec. 7. It is provided that upon the rehearing the case shall be reconstituted so as to present a complete new record, and that any testimony now on file which shall be offered and admitted into the new record, or any exhibits on file in the proceeding which shall be offered and admitted are to be refiled as part of such new record. The date for the rehearing is to be fixed later by the commission. Noted fully on Dec. 23.

CANADA.—The charters granted to the Northern Empire Ry. Co. and the Manitoba & British Columbia Ry. Co. have been taken over by a new company, of which Henry Ry, Edmonton, Alta., is the principal promoter. The capital of the company is $4,500,000. The plans call for a line in Alberta via Peace River, crossing into Dawson; also for a line from McMurray to Fort Churchill on Hudson Bay.

DELAWARE & EASTERN—We are officially advised that the contract for building the extension to this line from Grand Gorge, N. Y., to Middleburg, N. Y., 32 miles, has been awarded to the DOMINION CONSTRUCTION CO., Pittsburg, Pa., and construction thereon is now under way. The contract for the balance of the extension work will be let in the near future. F. F. Searing is Pres., 7 Wall St., New York. Noted on Sept. 23.

DELAWARE, LACKAWANNA & WESTERN.—Plans for the elimination of the grade crossings of the Lackawanna Company at Tripp Park, Luzerne St. and Ash St., Scranton, Pa., are about completed by the engineering department of the company, it is reported. The carrying out of the plans would mean an expenditure of about $150,000 by the company. The company has offered to eliminate the grade crossings provided the city becomes liable for any damages sustained by property owners. It is estimated that the damages would not amount to more than $10,000 or less than $5,000.

This company plans to eliminate grade crossings at Bloomfield, N. J. Through the Watsessing district the tracks will be lowered. In reaching Glenwood Ave., in Bloomfield, the tracks will be raised and trains will run on elevated tracks until the Glen Ridge line is reached. This improvement will do away with six dangerous grade crossings. New stations of ornamental design will be built in Bloomfield and Watsessing. The company has asked $10,000 to help pay for the improvement, and the Bloomfield Town Council has agreed to contribute that amount.

GREAT NORTHERN.—See Vancouver, Victoria & Eastern Ry. & Navigation Co.

KANSAS CITY, MEXICO & ORIENT.—The announcement has been confirmed that a line is to be built from San Angelo to Del Rio, Tex., via Eldorado, a total of 170 miles. The engineer in charge has not yet been appointed nor have bids been asked. There will be no important bridges and no tunnels. W. W. Colpitts is Ch. Engr., at Kansas City, Mo. Noted fully on Dec. 16, 1909.

KIOWA, HARDTNER & PACIFIC.—Construction will be commenced this spring on an extension to this line, which is now completed from Kiowa, Kan., to Hardtner, a distance of twelve miles, and it is intended to lengthen the line through Comanche, Clark, Meade, Seward, Stevens and Morton Counties to the coal fields of Brooksfield, Colo., and Des Moines, N. Mex. The line has been leased to the Missouri Pacific for a period of 20 years and this company will operate the K., H. & P. line. A. W. Sullivan, St. Louis, Mo., is Gen. Mgr. of the Missouri Pacific Ry.

LIBERTY-WHITE R. R.—An extension will be built from Holmesville, Miss., southeast to Tylertown, twelve miles. W. M. White is Gen. Mgr., McComb, Miss.

NEW RIVER COLLIERIES CO.—See West Virginia item.

NORFOLK & WESTERN.—Announcement is made that double-track will be constructed this year as follows: Between Iron Rock and Wheelersburg, Ohio, 13.3 miles, which will complete a continuous double-track from the Ohio River crossing to Davis; between Davis and Waverly, Ohio, 22.6 miles; between Reniek and Delano, Ohio, 5.8 miles, and between Gregg and Cromley, Ohio, five miles, a total of 46.7 miles. When all these improvements are finished the road will have a continuous double-track in Ohio between the Ohio River bridge and Columbus. C. S. Churchill is Ch. Engr., Roanoke, Va.

NORTHERN PACIFIC.—The main line of the Northern Pacific from Spokane to Tacoma and Seattle, Wash., according to the Chicago "Post," is to be shortened 100 miles during the coming year. "Work on this branch is to begin at once. The new line will be a continuation of the branch which is now being built from Ritzville, in Adams County, to a point directly west of there on the Connell-Adrian branch. The latter joins the old Washington Central, now a branch of the Northern Pacific, at Adrian. The line from Ritzville to the intersection with the Connell-Adrian branch is 45 miles long, and the present survey has been extended to the Columbia River, approximately doubling the length of the line and leaving it within 20 miles of Ellensburg, where the additional survey will probably bring it in connection with the main line again."

OMAHA, WESTERN & LINCOLN.—Incorporated in South Dakota with $3,000,000 capital and office at Lincoln, Neb., southwest to to build from Omaha, Neb., southwest to Hastings, 200 miles, with a branch south to Lincoln. The incorporators include F. L. Schaaf and C. Lee, of Lincoln; A. P. Tilley, of Osceola; C. Butler, of Kenesaw, Neb., and E. J. Quirk, of Highmore, S. Dak.

ROCKINGHAM RY.—Company has been organized to build a line from Rockingham, N. C., to Gibson Station or some other connection with the Atlantic Coast Line, about 20 or 25 miles. Survey is under way. Company may begin construction this spring. J. P. Leak is Pres., Rockingham.

SACRAMENTO & SIERRA.—We are officially advised that the Sacramento & Sierra Ry. Co., which plans to construct a line between Sacramento and Lake Tahoe, 110 miles, has graded five miles of railway. Surveys are made and most of the right of way secured. Contracts will be let during the year. There will be 25 miles of light grading and the balance will be heavy work. C. A. Smith is Pres.; J. M. Graham is Ch. Engr., Sacramento. Noted on Jan. 6.

SANDY RIVER & RANGELEY LAKES.—We are officially advised that contracts will be let about March 1 for building an extension from Madrid Junction to Sandy River Plantation, 5½ miles. Surveys are made and capital and right of way secured. Henry F. Hill is Ch. Engr., Augusta, Me. Previously noted.

TEXAS.—We are officially advised that A. Ludwig, C. E., Sealy, Tex., is locating a new railroad line in the Brazos Valley, from South Texas to Waco, and wishes to receive prices on all kinds of railroad material, including rolling stock.

W. M. Woodall, Secy. of the Temple Commerical Club, states that J. W. McDaniel, of Bartlett, Tex., has been employed to survey for the proposed railroad from Temple to Gatesville and Hamilton, Tex., and that within a month or six weeks a company probbly will be organized to build this line.

UNION PACIFIC.—Company has filed in the Cheyenne land office plans snowing the location of a cutoff at Northport, Neb., to Medicine Bow, Wyo., which will save 40 miles in distance, 1,000 feet in altitude and will move the main line 80 miles north of Cheyenne. A survey for the cutoff runs nine miles south of Wheatland, the only Wyoming town of importance in the region which the route traverses. Plans show that numerous tunnels must be constructed, including one 15,500 feet in length, another 3,100 feet long and several 800 to 1,200 feet long. Denver trains will go west over the Borie cutoff, which was finished last summer, and will then strike the main line east and west at Cheyenne, according to the San Francisco "Call." R. L. Huntley is Ch. Engr., Omaha, Neb.

VANCOUVER, VICTORIA & EASTERN.—Company will construct two sections of new line between Abbotsford and Hope, B. C., on the west side of the Hope Mountains and Princeton and Tulameen, B. C., on the eastern slope of Hope Mountains. A section over the Hope Mountains which is not included in the above, a tunnel eight miles in length, is proposed. J. H. Kennedy, engineer of construction work, has moved his headquarters from Princeton, B. C., to Abbotsford, B. C.

WEBBERS FALLS, SHAWNEE & WESTERN.—Regarding this company, the incorporation of which was noted last week, A. R. Peyinghaus, of Muskogee, Okla., Gen. Mgr., announces that the first line to be constructed will be twelve miles from Warner, Okla., to Webbers Falls. One bridge will be required over a creek. The C. E. HAGERTY ENGINEERING & CONSTRUCTION CO. will have charge of engineering and other building work. Company wishes prices on 60-pound relaying rail, to be delivered about April 1 at Warner, Okla. The engineering company probably can be addressed care of Mr. Peyinghaus, as no other address was stated.

WEST VIRGINIA.—We are officially informed that the New River Collieries Co. is securing bids on the construction of one mile of railroad and yards at Eccles, W. Va. L. E. Yoder, Ch. Engr., Eccles, W. Va.

A charter has been taken out in West Virginia for a branch of the Greene County Railroad Co., which was chartered in Pennsylvania in May, 1902. The latter has completed surveys and has made a permanent location for a line through the coal fields south of Pittsburg, but actual construction has not been started. According to the charter granted in West Virginia recently, the branch will extend from Waynesburg down Dunkard's creek to its mouth through the coal region of West Virginia. S. D. Brady, of Parkersburg, W. Va., is Ch. Engr.

ELECTRIC RAILWAYS.

HANOVER, PA.—Application will be made to the Governor of Pennsylvania on Jan. 31, by Lewis Edwards, Harry E. Chase and Harry De Mun for the charter of an intended corporation to be called the "Hanover & Plymouth St. Ry. Co.," to build and operate a street railway, beginning on Oxford St., in Hanover Township, Luzerne County, Pa., at the intersection of Lee Park Ave., thence in a westerly direction along Oxford St. to a public road leading from Wilkes-Barre to Nanticoke, commonly called the River Road; thence in said township on and along the River Road in a southwesterly direction to the Ferry Road leading to the Susquehanna River; thence in a westerly direction on and along the Ferry Road and Fellows Ave. to its terminus at the Susquehanna River; thence returning by the same route to the place of beginning, a distance of three miles. Atherton & Jones, Solicitors, Wilkes-Barre.

McKEESPORT, PA.—The Pittsburg, McKeesport & Westmoreland Ry. Co. plans to complete an extension between West Newton and Herminie, Pa., six miles, at an early date. T. I. Robertson is Vice-Pres., West Newton.

HENDERSONVILLE, N. C.—The Hendersonville Light & Power Co., it is officially announced, will begin construction work in the spring on its 4½-mile street railway. Contracts have not yet been awarded. Capital stock, authorized, $125,000. Bonds, $100,000. R. M. Oates, Hendersonville, N. C., is Pres.; M. D. Peder, Secy. C. H. Broward, Supt., Hendersonville. Noted on Nov. 4.

ASHEVILLE, N. C.—The Asheville Electric Co. is reported to have obtained rights-of-way for the proposed extension to Sulphur Springs, via West Asheville, five miles. J. E. Rankin is Pres.; H. W. Plummer is Gen. Mgr.

GREENVILLE, S. C.—The Greenville, Spartanburg & Anderson Ry. Co. has been chartered in South Carolina to build an interurban electric railway connecting Anderson, Belton, Greenville and Spartanburg. The line already reaches from Anderson to Belton, 10 miles, and the route will be from that point via Williamston, Pelzer, Piedmont and Gannt to Greenville, and thence via Taylor, Greer, Pelham, Duncan, Reidville, Wellford, Lockhart, Fairforest and Spartan Mills to Spartanburg, making altogether 64 miles. The incorporators include B. N. and J. B. Duke, of Durham, N. C.; Ellison A. Smyth and Lewis W. Parker, H. J. Haynesworth and W. J. Thackston, of Greenville, S. C. The road may ultimately be extended from Spartanburg via Union, Laurens and Greenwood to Belton, making a belt line.

NASHVILLE, TENN.—The Nashville & Adairsville Railway Co., which recently took out a charter to construct an electric railway from Nashville to Adairsville, Ky., will increase its capital to $1,250,000. The proposed route will be practically an air line from Nashville to Adairsville. It is also proposed to make connection with the Illinois Central R. R. somewhere in Grayson County, Ky. The line will pass through Goodlettsville, White House, Cross Plains and Orlinda. S. C. Robb is Pres. and Gen. Mgr.; W. A. Buntin, Vice-Pres.; Dr. B. P. Gilbert, Treas.; R. A. Wilson, Secy., all of Nashville. Other directors include H. M. Hayes, Nashville; A. T. Jackson, of Whitehouse, Tenn.; G. M. Howard, of Cross Plains, Tenn.; V. E. Crocker, of Orlinda, Tenn., and W. E. Jenkins, of Adairville, Ky. Preliminary work will begin immediately, and construction will start at Adairville. Noted on Dec. 23.

ZANESVILLE, OHIO.—The Muskingum & Morgan Ry., Light & Power Co. proposes to build between Zanesville and Duncan Falls in the Spring. A power plant will be erected at Duncan Falls. Capital stock, authorized, $10,000. A. W. McDonald, Pittsburg, Pa., is Pres.; John J. Adams, Columbus, Vice-Pres.; W. H. Pierpont, Zanesville, Secy.; R. C. Burton, Treas. F. C. Connas is Ch. Engr. Noted on July 29.

VINCENNES, IND.—The Vincennes Elec. Ry. Co. probably will commence construction this spring on its proposed 14-mile gasoline motor railway, which is to connect Vincennes, Ind., Lawrenceville and Bridgeport, Ill. R. V. Stinson, Mount Vernon, Ill., is Pres.; J. D. Madding, Bridgeport, Ill., Vice-Pres.; J. D. Lacroix, Vincennes, Secy.

SOUTH CHARLESTON, ILL.—The Springfield & Washington Ry. Co. plans to build a 6-mile extension to South Salem. This line, which now connects Springfield and South Charleston, later will be extended to Jeffersonville and Washington Court-House. G. W. Baker is Pres., Washington C. H., Ohio.

KANKAKEE, ILL.—The Galesburg, La Salle & Kankakee Elec. Ry. Co. has plans under way for building its line which will pass through the Counties of Kankakee, Grundy, La Salle, Putnam, Bureau, Stark and Knox, with a western terminal at Galesburg, Ill., and extensions north through La Salle, Grundy, Kendall and Will Counties to a terminal on the Outer Belt in or near Plainfield, Ill., with a south extension from Lowell, Ill., to Milla, Ill., a point on the C., I. & S. R. R. Company announces that "What is known as the main line will be constructed, commencing at the eastern terminal, Kankakee, Ill., running in a northwesterly direction to Clarke City, Ill., south to Wilmington, then to Verona and Grand Ridge, Ill. At a point in Grand Rapids Township the old grade of the Peoria & Pekin Ry. will be secured, running north through the city of Marseilles to Wolfs, Ill., in a westerly direction to Lowell, Ill., where we connect with the southern extension to Milla, Ill. From Lowell, Ill., the main line will be continued west through the city of Ogiesby with an extension to Illinois River docks and track arrangement from that point, making La Salle a temporary terminal. Continuing, the main line from Ogiesby passes south to Lacon, crosses the Illinois River at Hennepin, on to the western terminal at Galesburg, Ill." Noted on April 15, '09. The incorporators were William J. Parks and John W. Scott, of La Salle, Ill.; Frank O. Lash, of Bloomington, Ill.; James D. Flood and Harry F. Hamlin, of Chicago.

MURPHYSBORO, ILL.—The Egyptian Traction Co. has been incorporated in Illinois. The line is to be constructed from Murphysboro, in Jackson County, through the Counties of Williamson, Saline, Gallatin and White, to the Wabash River. The incorporators are C. C. Leggett, Winchester, Ind.; John W. Murphy and S. W. Latham, Eldorado, Ill.; John D. Stayron, Texas City, Ill., and G. E. K. Hixon, Chicago. The capital stock is $5,000.

CHICAGO HEIGHTS, ILL.—Articles of incorporation have been filed with the Secretary of State by the Hammond, Chicago Heights & Southern Traction Co. for a line to be constructed from some point on the Illinois State line, immediately contiguous to the corporate limits of Hammond, Ind., thence in a southwesterly direction to a convenient point within the corporate limits of the city of Chicago Heights, in Cook County; thence in a southwesterly direction through the Counties of Will and Kankakee to a point within the corporate limits of the city of St. Anne, in Kankakee County. The principal office will be located in Chicago, and the capital stock will be $500,000. The incorporators and first Board of Directors are William S. Reed, Andrew Ward, Joseph Orr, Edward R. Davis, all of Chicago Heights, Ill.; and Alfred Van Steenbert, of Lansing, Cook County, Ill.

BELLEVILLE, ILL.—The Belleville & Pinckneyville Traction Co., which proposes to build an electric line between Belleville and Pinckneyville, via Freeburg, New Athens, Lenzburg, Marissa, Tilden, Coulterville, Swanwick and Winkel, 50 miles, has made preliminary survey. Capital stock authorized, $100,000, to be increased to $2,500,000. Bonds, authorized, $2,500,000. L. D. Turner, Belleville, is Pres.; E. R. Hincke, Pinckneyville, Vice-Pres.; George F. Mead, Pinckneyville, Secy.; J. A. Hamilton, Marissa, Treas. Harper Bros., Sexton Bldg., East St. Louis, Ill., are Engrs.

SIOUX CITY, IOWA.—C. A. Magee has asked the City Council to call a special election to vote the right-of-way for an electric railway into Sioux City. Mr. Magee is reported to be interested in a company which has made a survey for an interurban line from Parkston, S. Dak., to Sioux City. The line is planned to run through Sioux Falls, Freeman, Yankton, Centerville and Elk Point, S. Dak.

NEWTON, KAN.—It is announced that the Central Kansas Interurban Ry. Co. plans to commence work during the spring on its projected railway which will connect Newton, Canton, Roxbury, Gypsum, Abilene and Salina, 80 miles. Gasoline motor cars will be operated. The company has not yet been incorporated. Stock authorized, $1,500,000. John C. Nicholson, Newton, is Pres.; J. C. Bruner, Abilene, Secy.; C. B. Kirtland, Salina, Treas.; O. Moorshead, Newton, Ch. Engr. Noted on Jan. 6.

ST. LOUIS, MO.—We are officially informed that the St. Louis County Belt Line Co. has completed surveys for its proposed double-track electric line which will be about 52 miles long. Bids will be received from contractors until Feb. 1. Wm. Nagel, 948 Pierce Bldg., St. Louis, is Ch. Engr. Edward Whitaker is Pres.; Robert McCully, Vice-Pres.; James Houseman, Gen. Mgr. Noted on Oct. 7, '09.

VAN BUREN, ARK.—Construction has commenced on the Fort Smith, Van Buren & Eastern Interurban Elec. Ry. Articles of incorporation, filed in the County Clerk's office here, provide for the construction and operation of an interurban line from Fort Smith through the counties of Crawford, Franklin, Johnson, Madison, Newton, Boone and Searcy. The officers are W. F. Keller, Pres.; L. W. Burgett, Vice-Pres.; T. A. Bayley, Secy.; S. A. Pernot, Treas. and S. R. Chew, Counsel. Headquarters are at Van Buren.

TULSA, OKLA.—The Tulsa St. Ry. Co., operating 8½ miles of lines in Tulsa, will expend $100,000 this year in extensions and improvements, according to local press reports. C. H. Bosler is Pres. and Gen. Mgr., 1004 Commerce Bldg., Dayton, Ohio.

WHITE SALMON, WASH.—The Mount Adams Elec. R. R. Co. plans to begin construction about May 1 on its proposed 60-mile line between White, Salmon and Glenwood, Wash. The company has not yet been incorporated. It is proposed to build a power plant on the White Salmon River. Capital stock, authorized, $1,000,000. C. L. Colburn, White Salmon, Wash., is Secy.; H. S. Hall, Ch. Engr. Noted on Dec. 23.

LAKEPORT, CAL.—The Highland Pacific R. R. Co. has made arrangements, it is stated, to sell bonds for the construction of its line between Lakeport and Santa Rosa, via Alexander Valley. J. B. Fulton and A. E. Dickinson, of Lakeport, are interested. Noted on Sept. 16.

HAMILTON, ONT.—We are officially informed that the Hamilton, Waterloo & Guelph Ry. Co. expects to let contracts this spring for building about 140 miles of new line. Right-of-way and capital are partly secured. Surveys are made. John Patterson is Gen. Mgr.; Thos. E. Hillman is Ch. Engr., Hamilton. Noted on Dec. 23.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

DERRY, N. H.—The Derry Electric Light Co. is making arrangements to replace its direct-current machines with 3-phase, 60-cycle, alternating-current generators. The generator has already been installed and the company is now changing its wires for the new system. D. F. Griffiths is Ch. Elecn.

RAYMOND, N. H.—Plans are being made by the Raymond Electric Co. to install a 60-KW. generator. The company will install a hydro-electric power plant, with an output of 200 HP., about two miles distant from the present steam plant. Charles F. Gardiner is Mgr.

DOUGLASTON, N. Y.—The New York & North Shore Traction Co., Roslyn, N. Y., has filed plans for a power plant to be located on Albany Creek north of Broadway, Douglaston. The building will be 105 × 79 ft., one story high. This plant will furnish power for the line from Manhasset to Whitestone. Estimated cost, $90,000. C. H. Clark, Roslyn, is Ch. Engr.

HASTINGS-ON-HUDSON, N. Y.—The National Conduit & Cable Co. has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for 13 induction motors from 15 to 75 HP.

NIAGARA FALLS, N. Y.—Application has been made to the Public Service Commission, Second District, by the Niagara Falls Power Co., Philip B. Barton, Gen. Mgr., of Niagara Falls, for permission to issue bonds for not more than $10,091,000, of which $9,076,000 is to be used for refunding of obligations, and the remainder for extensions and improvements to its plant.

The Niagara Falls Hydraulic Power & Mfg. Co. has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for two 6,500-volt, 25-cycle, hydraulically-driven revolving-field generators. B. F. Lee is Electrical Supt.

MILTON, PA.—The Milton Electric Light & Power Co. and the Lewisburg, Milton & Watsontown Passenger Co. have been sold to a syndicate of Harrisburg capitalists, the principals being John F. Whittaker and D. L. Diehl. The light and power plant will be operated by a new corporation, the United Light & Power Co., which will erect a new power plant.

BALTIMORE, MD.—The Baltimore & Ohio R. R. Co. will build a 1-story fireproof electrical sub-station at 1029-1031 Park Ave. This is the beginning of improvements which the railroad company will make during this year. The contract has been awarded to EDWARD BRADY & SON. Plans were drawn by M. A. Long, Arch., and call for a building 34 × 100 ft., to cost about $16,000. The sub-station will have a front of pressed brick and be trimmed with stone. The roof will be of slag. Besides the cost of the building there will be about $100,000 of machinery installed.

*RICHMOND, VA.—We are officially advised that bids were received at the office of E. E. Davis, Supt. Water Dept., by the Committee on Water, on Jan. 14, for furnishing the material and performing the work of constructing electric transmission lines. The bids were: T. Livers & Gordon & Hotchkiss, Richmond, $10,906, using city's route, copper wire; $8,443, using C. & O. Ry. right of way, copper wire; Electric Equipment Corporation, Richmond, $13,997, copper wire; W. H. Jenks, $12,000, copper wire; $11,300, aluminum wire; Electrical Enginering Supply Co., Richmond, $18,000, copper wire, McCay Engineering Co., 8 East Lexington St., Baltimore, Md., $10,888, copper wire; $10,444 aluminum wire; Carolina Electrical Co., Raleigh, N. C., $8,995, copper wire (recommended for award).

RONCEVERTE, W. VA.—A charter has been granted to the Ronceverte Milling Co., which includes the privilege of erecting a dam across the Greenbrier River and the construction of electric and water plants. Capital, $50,000. The incorporators are: John G. Fulton, of Grettes, W. Va.; Oscar A. Price, James R. Johnson, James Winkler, Jr., and W. H. Kauffelt, all of Ronceverte, W. Va.

ALBEMARLE, N. C.—The city has sold $20,000 of bonds for the construction of an electric lighting plant and for street improvements.

WHITEVILLE, N. C.—The Whiteville Light & Power Co. has secured franchise to construct an electric light plant. J. R. Williamson is interested.

SYLVA, N. C.—Plans are being made by Charles J. Harris to erect an electric plant on the Huckaseigee River, a short distance from Dillsboro, to furnish electricity for lamps here and in Dillsboro. Street lamps will be installed here.

LEXINGTON, N. C.—Plans to change the system of the municipal electric light plant from direct to alternating current, and purchasing electricity for operating the plant from the Southern Power Co., of Charlotte, N. C., are being considered. Albert L. Couch is Supt.

GREERS, S. C.—Contract for lighting the streets and public buildings has been awarded to A. H. MILLER, who plans to install an electric lighting system here. Electricity for operating the system will be furnished by the Southern Power Co., of Charlotte, N. C.

VALDOSTA, GA.—The city has granted franchise for lighting to G. W. Varn and others, who will form company to be incorporated with the Consolidated Ice & Fuel Co., which is asking for amendment to charter changing its name to Consolidated Ice & Power Co. and giving privilege to operate an electric plant.

BRUNSWICK, GA.—The Brunswick Terminal & Ry. Securities Co., successor of Brunswick Dock & City Improvement Co., has purchased control of the Mutual Water Co. and City & Suburban Ry. Co., furnishing electricity for lighting and power, operating street railway, etc. Capital, $10,000,000. Officers are in New York with Kean, Van Cortlandt & Co., 30 Pine St.

FORT MYERS, FLA.—The Seminole Power & Ice Co. will install a 200-HP. boiler to replace present one of 60 HP.

MARIANNA, FLA.—The city has voted $10,000 of bonds for the consolidation and enlargement of electric light and waterworks plants.

MADISON, FLA.—The Madison Electric Co. contemplates improvements and extensions to its transmission lines in this town. J. W. Reeve, Jr., is Mgr.

WEST PALM BEACH, FLA.—Improvements and extensions are contemplated by the Ariston Ice & Electric Co., including the installation of an additional 60-KW. generator and a high-speed Harrisburg engine. A change in the street lighting system is contemplated, using series tungsten lamps in place of the present arc and incandescent lamps. H. C. Adams is Local Mgr.

BRIDGEPORT, ALA.—The Bridgeport Electric & Ry. Co., lately organized, is planning to contract for equipment for a 250-HP. power plant within the next few weeks.

PHENIX CITY (Columbus, Ga., post-office), ALA.—The city has decided to install a lighting plant.

NEW ORLEANS, LA.—The New Orleans Railway & Light Co., New Orleans, has awarded contract to the JEFFERSON CONSTRUCTION CO., Perrin Bldg., New Orleans, for the erection of a sub-station and emergency house, 154 ft. 8 ins. × 53 ft. 8 ins., sub-station to be of fireproof construction and the emergency house of mill construction.

APPALACHIA, TENN.—The Carolina-Tennessee Power Co., New York, will start work in the early spring on a power plant, to furnish power for the two big copper companies at Ducktown. Two dams will be built on the Hiawassee River, one at Appalachia and the second 20 miles above Appalachia, to generate 60,000 HP. New York and Boston capitalists are behind the enterprise. Towns as far south as Rome, Ga., and as far north as Etowah, Tenn., are to be supplied with electrical current. Each dam will be 150 ft. high and will back the water of Hanging Dog Creek, N. C., 20 miles above Appalachia. E. F. Smith, Detroit, Mich., is Local Mgr.

LOUISVILLE, KY.—George G. Fetter Lighting & Heating Co., 426 West Main St., has increased its capital stock from $150,000 to $200,000.

CLEVELAND, OHIO.—The County Building Commission on Jan. 12 directed their engineers to proceed with plans for a power, heat and light plant on W. Tenth St., near Main Ave. N. W. Estimated cost, $250,000.

DAYTON, OHIO.—The People's Ry. Co., George C. Towle, Gen. Mgr., of Dayton, is considering plans for the erection of a power plant here, 250 × 180 ft. Estimated cost, $125,000.

EAST ST. LOUIS, ILL.—The American Steel Foundries Co. has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for an additional generating unit, consisting of a 16 × 26 × 36 tandem-compound, non-condensing engine direct connected to a 500-KW., 250-volt, direct-current generator.

NEILLSVILLE, WIS.—Plans are being prepared by the Upham Mfg. Co. for the construction of an electric power plant on the Black River here to develop 400 HP.

RIVERSIDE, WIS.—Arrangements are being made by the J. M. Kohler Sons' Co., Sheboygan, for the construction of a large power plant in connection with its manufacturing plant at Riverside. The equipment of the power house will include a 1,000-HP. cross-compound condensing engine direct-connected to a 750-KW. Crocker-Wheeler generator. Auxiliary equipment, including a 375-KW. Corliss engine direct connected to a 250-KW. generator, and one 150-HP. Corliss engine belted to a 150-KW. generator will be installed.

GREGORY, NEB.—Local men have formed a company for the purpose of furnishing electricity here. Capital, $20,000. The officers are: W. H. Tackett, Pres.; J. Reuther, Vice-Pres.; Edward Morrison, Secy.; John P. Biehn, Treas.

BEACH, N. DAK.—Application has been made to the Council by George S. Chrysler, Supt. Wadena municipal electric light plant, for a franchise to install an electric light plant here.

GRAND FORKS, N. DAK.—The Grand Forks Street Ry. Co. contemplates the purchase of second-hand power-plant equipment complete with a capacity of 200 KW. to 300 KW. Thomas D. Campbell is Gen. Mgr.

PIERRE, S. DAK.—The State Capitol Commission has let contract for supplying the new Capitol with 2,400 Tungsten lamps. Contract was let to the ABERDEEN ENGINEERING CO., of Aberdeen.

COLUMBIA FALLS, MONT.—The City Council has granted the Northern Idaho & Montana Power Co. a 50-year franchise to furnish electricity in Columbia Falls from the plant at Big Fork, through the Kalispell station.

ST. LOUIS, MO.—The Keokuk & Hamilton Water Power Co., Keokuk, Iowa, plans the construction of a sub-station in connection with transmission of electricity to St. Louis from water-power development.

WEBB CITY, MO.—The Southwest Missouri Ry. Co. has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for electrical equipment for its new cars, including car motors, together with controllers, wiring, etc. The motors are of the new interpole type manufactured by the Allis-Chalmers Co.

CHILLICOTHE, MO.—The Fuller Consulting Engineering Co., 721 Olive St., St. Louis, Mo., is preparing plans for an electric light plant. Estimated cost, $50,000. Bids will be received this month.

SEARCY, ARK.—Preparations are being made for the construction of water-works and sewerage systems, to be connected with the municipal electric light plant, for which bonds to the amount of $80,000 have been voted. Bids will probably be asked for the work about April 1. The system will include a deep well and electrically driven, vertical turbine centrifugal pump with a capacity of 250,000 gallons; 100,000-gallon pump, and tower 100 ft. high, suction lift estimated at 50 ft. A 50-KW. 3-wire, 110-220-volt, direct-current, direct-connected unit will be installed when the water system is installed. W. H. Walkup is Mgr.

ARDMORE, OKLA.—The City Council has engaged the J. W. Maxcy Co., of Houston, Tex., to estimate the cost of constructing a water-power plant in the Washita River.

BOULDER, COLO.—Plans are being considered by J. I. Carper, of Denver, Colo., for the construction of a large hydro-electric power plant west of Boulder to furnish electricity and also to supply water to irrigate a large area of land in the eastern part of Weld County. The proposed plant will have an output of 10,000 HP.

The Highland Power Co., with a capital of $3,000,000, organized to develop power in Middle Boulder Creek, has filed articles here. The company will construct a reservoir and power plant above Eldora and about five miles from the top of the Continental divide, in this country. The initial installment will generate about 2,500 KW., where a fall of 1,500 ft. is obtained in less than two miles of pipe line. The directors are: I. N. Blair, H. O. Andrew, H. W. Brouger and Edward Austin, all of Boulder; J. H. Bair and J. F. Turner, of Philadelphia, and J. E. Slathower, of Harrisburg, Pa. Power will be employed in operating the property of the Highland Mining Co. and the surplus sold to operators in the district.

TRINIDAD, COLO.—The Colorado Ry., Light & Power Co., Trinidad, expects to build during 1910 an extension to its power-house and will purchase turbo-generators and steam-generating equipment. H. N. Siegfried is Gen. Mgr.

PORTLAND, ORE.—The Pacific Coast Engineering Co. has been awarded contract for the foundation of the large power plant to be erected on the river front at the foot of East Lincoln St., by the Portland Ry., Light & Power Co. It will be necessary to drive 4,000 ft. of piling for foundation, large frame bulkhead will be built to protect the piling and entire area will be filled with sand and covered with concrete.

PALMS, CAL.—The People's Water Co., of Palms is considering the formation of a stock company to generate electricity for lighting purposes.

RED BLUFF, CAL.—See item under Water Supply—Irrigation.

SAN JACINTO, CAL.—A. H. Koebig, C. E., of Los Angeles, Cal., has been engaged to make surveys and estimates preliminary to the construction of a large power plant and water system near here. Grigsby & Von, of Santa Monica, Cal., and R. M. McPierson are interested.

RIVERSIDE, CAL.—Plans are being prepared by the Consolidated Power & Reservoir Co. Contracts will soon be awarded for the construction of five power plans on its property at Riverside. The company has purchased 40,000 acres of land between Riverside and Corona and will construct dams and canals for irrigation purposes.

PRESCOTT, ARIZ.—A dam estimated to cost $500,000 is projected by associates of the Corona Copper Co., Prescott. Engineers have estimated that 8,000 HP. can be developed.

OTTAWA, ONT.—Plans for the development of power on the Long Sault Rapids, in which New York capitalists are interested, are now before the Chief Engineers of the Department of Railroads and Canals. The development of 125,000 HP. is contemplated with four power houses on the American and three on the Canadian side of the St. Lawrence River.

BRAMPTON, ONT.—On Jan. 3 the citizens voted in favor of the by-law providing for a contract with the HYDRO-ELECTRIC POWER COMMISSION and to issue debentures for $40,000, the proceeds to be used for the construction of a distributing plant.

PETERBORO, ONT.—The by-laws authorizing the City Council to enter into an agreement with the Peterboro Light & Power Co. for a term of 30 years was carried on Jan. 3.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—We are officially advised that the BOSTON BRIDGE WORKS, INC., 47 Winter St., Boston, has been awarded contract by the city for the construction of a tollgate way footbridge, West Roxbury, at $5,865. Bids were opened on Jan. 17. Guy C. Emerson is Supt. of Streets.

WESTBROOK, CONN.—Bids will be received by the Board of Selectmen, P. C. Burdick, Chn., until noon, Feb. 1, for the construction of a combination steel and concrete bridge over the Menunketsuck River. Plans and specifications and blank forms of proposals may be obtained from Buck & Sheldon, Consulting Engrs., 36 Pearl St., Hartford, Conn.

BUFFALO, N. Y.—LUPFER & REMICK, 590 Ellicott Sq., Buffalo, have been awarded contract by F. C. Stevens, Supt. Pub. Wks., Albany, for the construction of a highway bridge over the Erie Canal at Georgia St., Buffalo, at $18,121. List of bidders noted on Dec. 23.

YARDLEY, PA.—The Philadelphia & Reading Ry. Co. will construct a 4-track concrete bridge over the Delaware River here.

OIL CITY, PA.—The AMERICAN BRIDGE CO., Frick Bldg., Pittsburg, Pa., has been awarded contract for the erection of the new bridge over the Allegheny River at Oil City for Venango County. The abutments of the old bridge are to be used for the new structure and new piers are to be erected to take the place of those now standing.

BALTIMORE, MD.—The Board of Public Improvements has approved the plans of O. F. Lackey, Harbor Engr., for the construction of a bridge 120 ft. wide across Jones' Falls at Pratt St., and extending and widening of Pratt St. to President St., a distance of 150 ft. eastward from the falls. Estimated cost, $135,000, to be provided out of $1,000,000 dock loan approved by voters last November.

BRISTOL, VA.—Bids are asked until Feb. 8 by the Street Committee for the construction of a steel or concrete bridge over Beaver Creek. James W. Mort is Chn.

PARKERSBURG, W. VA.—The Secretary of War on Jan. 14 approved the plans of the Parkersburg Bridge Co. for the erection of a bridge across the Ohio River at Parkersburg.

GREENVILLE, S. C.—Bids are asked until Jan. 25 by Greenville County for the construction of a bridge at Paris Mountain Reservoir, and at McCauley Mills. J. P. Goodwin is Supervisor.

JACKSON, GA.—Butts County will construct a steel bridge at Indian Springs.

SHREVEPORT, LA.—The city, in conjunction with the Parish of Bossier, will erect a wagon and footbridge across the Red River at the end of Texas St., this city. A city ordinance was passed to this effect by the City Council on Jan. 11. The bridge will be a "high" bridge, allowing boats to pass underneath without a draw span. The river at this point is about 1,000 ft. wide. Plans are being drawn by George R. Wilson, City Engr., and bids will be advertised for through C. G. Rives, City Controller, Shreveport.

CHATTANOOGA, TENN.—The question of repairing the McCallie Ave. viaduct or constructing an entirely new viaduct is under consideration. Estimated costs, $16,000 and $130,000, respectively. Robert Hook is City Engr.

SWEETWATER, TENN.—Monroe County Court has ordered the construction of three county bridges over Toco, Notchy and Sink Hole Creeks. Estimated cost, $4,000.

COOKEVILLE, TENN.—Putnam and White Counties will construct a bridge across Falling Water River. H. D. Whitson and others of Cookeville are Putnam County members of Bridge Committee.

DAYTON, OHIO.—The citizens of North Dayton have asked the City Council to construct a new bridge over the Mad River at Keowee St.

Bids will be received until Feb. 9 at the office of the City Auditor for $170,000 bonds to be issued for the purpose of providing money for constructing a bridge across the Great Miami River at Stewart St.

OAK HARBOR, OHIO.—Bids are asked until noon, Feb. 8, by W. H. Mylander, Audr., Ottawa County, Port Clinton, for bridge work in Oak Harbor bridge.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Feb. 5, by the Cuyahoga County Commissioners for bridge work per Report 2566, Rocky River Township, and Report 2567, Rockport Township. John F. Goldenbogen is Clk.

NEW ALBANY, IND.—The Kentucky & Indiana Bridge Co. is asking for bids for rebuilding the cantilever bridge across the Ohio River here.

INDIANAPOLIS, IND.—The Commissioners of Marion County have decided on the erection of bridges as follows: Bridge across Fall Creek at Delaware St.; bridge across White River at New York St.; and a bridge across Little Eagle Creek at Washington St., and several smaller bridges. Bids will be asked when plans and specifications are completed. Estimated cost, $400,000.

INDIANAPOLIS, IND.—The Board of Public Works has awarded contract for constructing a concrete bridge with stone facing over Pogues Run at Commerce Ave. to the AMERICAN CONSTRUCTION CO., Monadnock Bldg., San Francisco, Cal., at $5,400. Bids were opened on Jan. 7.

SAGINAW, MICH.—Contract for constructing the bridge across the Tittabawassee River on the line of State St. extension was awarded on Jan. 6 by the County Road Committee to the CENTRAL STATES BRIDGE CO., of Indianapolis, Ind., at $23,200. The plans provide for a steel trussed bridge with concrete floor and a carrying capacity of 100 lbs. per sq. ft., the floor to be 18 ft. wide in the clear. There will be two spans, each 150 ft. long, one span 120 ft. long and one span 40 ft. long.

Contract for filling from the end of State St. to high ground on the west side of the river was awarded to ALBERT REED, of Midland, at 17¾ cts. per cu. yd. The total cost of this work is estimated at $5,600. E. Treadwell is Engr.

PRAIRIE DU CHIEN, WIS.—The Chicago, Milwaukee & St. Paul Ry. Co. will begin the construction of a bridge over the Mississippi River here within the next 60 days.

MINNEAPOLIS, MINN.—Bids are asked by Hugh R. Scott, County Audr., until 11 a. m., Jan. 31, for the construction of a bridge at the "narrows," Lake Minnetonka, bridge to be not less than 25 ft. in clearance, and from 20 to 24 ft. in width.

HUTCHINSON, KAN.—The cost of the reinforced-concrete arch to be constructed across Cow Creek has been estimated at $15,000. G. L. McLane is City Engr. Noted on Jan. 13.

RAPID CITY, S. DAK.—The plans and specifications for the construction of a new bridge over Rapid Creek prepared by the Central States Bridge Co., of Inidianapolis, Ind., have been adopted by the Council. Estimated cost, $6,700.

SIBLEY, MO.—The Atchison, Topeka & Santa Fe Ry. Co., C. A. Morse, Ch. Engr., Topeka, Kan., will, it is stated, construct a bridge across the Missouri River.

ALTAIR, TEX.—The San Antonio & Aransas Pass Ry. Co., J. S. Peter, Gen. Mgr., San Antonio, Tex., is prepared to receive bids for the construction of the steel bridge across the Colorado River between Altair and Eagle Lake, 275 ft. through span, one 40-ft. and one 60-ft. deck girders, concrete piers and abutments. Estimated cost of superstructure, $35,000; of substructure, $15,000. Plans and specifications on file at office of Hans Helland, Yoakum, Tex., Supt. Maintenance of Way. Noted on Jan. 6.

PUEBLO, COLO.—Eleven bids for the construction of a new bridge over the Arkansas River at Union Ave. were received on Jan. 3 by the City Council. The bidders were: Des Moines Bridge & Iron Co., Des Moines, Iowa, $49,000, if the contractor must provide for street car traffic; $44,700 without street car traffic. If plain concrete is used a reduction of $800. Bridge to be completed May 20, 1910. A. M. Blodgett Construction Co., Commerce Bldg., Kansas City, Mo., $41,150, not contemplating the handling of traffic; bridge lamps not to cost over $50 each; bridge to be completed nine months after contract is signed. Alex. Campbell, Pueblo, $49,900 for 2-span reinforced concrete; time, 120 days; and $29,600 for 5-span reinforced concrete; time, 70 days. M. F. Levy Construction Co., Denver, $37,000 with addition of $1,250 for maintaining street car traffic; lamps to cost $50 each. M. J. Patterson Contracting Co., Colorado Bldg., Denver, $35,900 for steel girder bridge with concrete abutments; without maintaining street car traffic, $1,150 less; time, six months. Standard Construction Co., Pueblo, $38,650 without maintaining street car traffic; with maintenance of traffic, $41,150; time, six months. Midland Bridge Co., Gibraltar Bldg., Kansas City, Mo., $39,500 without maintaining street car traffic; with traffic, $1,500 more; time, 200 days. Wichita Construction Co., Wichita, Kan., $35,800 without street car traffic; with traffic, $1,750 more; time, 210 days. C. J. Sheely Contracting Co., Denver, $36,721. Pueblo Bridge Co., Pueblo, $35,000, $29,650, $35,450 and $34,950; with maintaining street car traffic for bids Nos. 1 and 2, $1,200 added; Nos. 3 and 4, $800 added; time, 210 days for bids Nos. 1 and 2, and 180 days for bids Nos. 3 and 4.

CHELAN, WASH.—Contract for constructing a bridge across the Chelan River has been awarded to E. R. DAVIS & CO., of Seattle, at $12,300. Bowerman & McCloy, of Seattle, are Engrs.

MERCED, CAL.—Contract for constructing the steel bridge across the Merced River on the Stevinson Colony and Merced River Road has been awarded to the WISTER BRIDGE & CONSTRUCTION CO., of San Francisco, at $14,263. P. J. Thornton is Clk. Bd. County Supervisors.

NAPA, CAL.—The Board of Supervisors, Napa, have decided to erect a stone bridge over Dry Creek, at Napa, to replace the wooden structure. Bids will be asked soon.

PORTERVILLE, CAL.—The Board of Trustees have authorized the construction of four concrete bridges in the city. Bids will be asked soon.

CALGARY, ALTA.—Plans have been prepared for a concrete bridge to be constructed over Elbow River here. Estimated cost, about $30,000.

MEXICO CITY, MEX.—The Pan-American R. R. Co., E. Unger, Ch. Engr., Gamboa, Mex., will construct a bridge to extend from Mexico to Guatemalan territory, crossing the Suchiate River, connecting Mariscal, Mex., with Ayutla, Guatemala. The bridge will connect the Pan-American road with the Ocos R. R. running from the seacoast town of Ocos to Cabello Blanco.

BUILDINGS.

(* *denotes that this work is advertised in Engineering News.*)

PORTSMOUTH, N. H.—See item under Washington, D. C.

CHELSEA, MASS.—See item under Washington, D. C.

*PAWTUCKET, R. I.—Notice is given that the time for opening bids for the extension, remodeling, etc., (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. postoffice at Pawtucket, R. I., has been extended from Jan. 25, to Feb. 21. James Knox Taylor is Superv. Arch., Treasury Dept., Washington, D. C.

NEWPORT, R. I.—See item under Washington, D. C.

HARTFORD, CONN.—The Kellogg & Bulkeley Co., lithographers, have purchased land on Franklin Ave., and are having plans prepared for a 1-story fireproof steel factory building, 75 × 180 ft. The total cost of the plant is estimated at $50,000.

NEW YORK, N. Y.—James Knox Taylor, Superv. Archt. of the Treasury Dept., Washington, has awarded contract for housing the railway mail service at the new postoffice at the Pennsylvania R. R. terminal, New York, to GEORGE A. FULLER CO., Fuller Bldg., New York, at $549,500. Time to complete July 1, 1910. The new postoffice is to cost, when completed, $3,500,000. There were two other bids for the portion of the work let. They were from Charles H. Peckworth, 415 Hudson St., $559,207, and Norcross Bros. Co., 160 Fifth Ave., $559,865.

The E. Gussaroff Realty & Construction Co., 600 West 140th St., will build a 6-story flat, 100 × 100 ft., at the northwest corner of Broadway and 149th St., to cost $225,000. Moore & Landsiedel, Third Ave. and 149th St., have completed plans.

Charles Volz, 160 Fifth Ave., Arch., for the Robert Burns Realty Co., has filed plans for a 12-story loft and store building to be built on a plot 46 ft. front. at 67 and 69 Irving Pl. It is to be of brick, with trimmings of limestone and terra cotta and will have a depth of 80 ft. with an extension. The cost is estimated at $120,000.

Bernstein & Bernstein, Archs., 24 East 23d St., will prepare plans for two 5-story tenements with stores, 135 × 100 and 40 × 100 ft., for Friedman & Feinberg, 171 Broadway, to be erected at West Farms Road and 167th St., the Bronx. Cost, $125,000. The owner will build and will award all contracts. Plans will be ready for figures about Feb. 10.

NEW YORK, N. Y.—Bids were received as follows by the Department of Public Charities, on Jan. 11, for providing all labor and materials necessary or required for the excavation, masonry, steel and iron work, roofing and metal work, carpentry, plumbing work, heating work, electric work and all other work (except certain kitchen, services and lighting fixtures and refrigerators) as set forth in the drawings and specifications for construction and entire completion of a dormitory for female inmates at the New York City Farm Colony, situated on the property of the Department of Public Charities, on the north side of the Manor Road, Township of Castleton, Boro. of Richmond, the City of New York: Kelly & Kelley, 45 East 42d St., New York, $49,889; Philip Wolf & Son, $55,954; Luke A. Burke & Sons Co., 25 West 42d St., New York., $54,750; George Hilderbrand, 38 Park Row, $53,860; Thomas Dwyer, $61,421; Thomas B. Leahy Building Co., 1 East 42d St., New York, $55,375.

George Fred Pelham, Arch., 507 Fifth Ave., is preparing plans for a 12-story mercantile building to measure 42 × 98 ft., to be constructed at 114-116 West 26th St., at a cost of about $200,000. The Criterion Construction Co., L. Matz, 222 Riverside Drive, Pres., is the owner.

Slee & Bryson, Archs., 187 Montague St., Brooklyn, have prepared plans for a 6-story brick and limestone 36-family apartment house, 62 × 108 ft., to be erected by the Johnson Building Co., G. A. Johnson, 1703 79th St., Brooklyn, Pres., on Prospect Pl., near Flatbush Ave., Brooklyn, to cost about $100,000. The owner will receive all bids.

NEW YORK, N. Y.—Bids are asked until 10 a. m., Jan. 27, by the Board of Health, for furnishing all the necessary labor and materials required for installing plumbing at the Drug Laboratory Building, on the west side of Ave. D, near 15th St., on the grounds of the Willard Parker Hospital, for the Department of Health, City of New York.

Paterno Bros., builders, will erect a 12 and 14-story fireproof apartment house at the southeast corner of Riverside Drive and 116th St., from plans by Schwartz & Gross, Archs., 347 Fifth Ave., to cost $300,000.

A $300,000 school is to be erected on the block front on the north side of 196th St., between Bainbridge and Briggs Aves. Plans for the structure were filed by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education. It is to occupy a plot 200 × 100 ft.

The Jensen Construction Co., 1009 East 180th St., will begin the erection of a 5-story, 28-family flat apartment house on the south side of 180th St., 90 ft. west of Honeywell Ave., The Bronx, to cost $60,000. B. Ebeling, 1136 Walker Ave., has prepared plans. The owner will receive all bids.

SHARON SPRINGS, N. Y.—Plans have been prepared by Oren Finch, Arch., 437 State St., Schenectady, for an addition to the Sharon House at Sharon Springs, N. Y., which is owned by Rosenberg & Fisher, 2094 Third Ave., New York. Bids will be asked on the following work in connection with the proposed improvement: One electric passenger elevator, new steam heating plant, high pressure; dish washers and laundry machinery, concrete for foundations and other work; individual electric lighting system; plumbing, hot and cold water in all rooms; steel ceilings, boiler, etc.

SCHENECTADY, N. Y.—Plans are being prepared by L. Rodman Nichols, Arch., 208 South Center St., Schenectady, N. Y., for the construction of a store building, laundry and boiler house for E. A. Gasner, of Schenectady, N. Y. Bids will be asked about Feb. 1. The work includes high-pressure boiler, steam heating, galvanized iron cornices, slag roof, pressed brick front, concrete floors, laundry machinery, metal ceilings, electric and gas lighting, structural steel, ornamental iron, Hill's dryers, dumbwaiters and plumbing.

BUFFALO, N. Y.—Statements are made to the effect that both the New York Central & Hudson River R. R. and the Delaware, Lackawanna & Western R. R. companies are preparing to build passenger stations in Buffalo, the aggregate outlay for which will be between $7,000,000 and $8,000,000. The N. Y. C., it is stated, will spend $4,000,000 or $5,000,000 in carrying out one of three plans—an enlargement of present passenger terminal facilities on the so-called Exchange St. site, the building of a passenger station along the water front in the district between Genesee and Erie Sts., or in the vicinity of what is known as the Compromise Y. The D., L. & W. will have a new site east of the foot of Main St., the property now used for a passenger terminal to be devoted to freight business. G. W. Kittredge, Grand Central Station, New York, is Ch. Engr., N. Y. C.; G. G. Hay is Ch. Engr., D., L. & W., Hoboken, N. J.

KENMORE, N. Y.—Bids for the erection of a projected $45,000 high school building were open and read before the School Trustees on Jan. 10. The first bid read was that of Large & Co., of Kenmore. They offered to do the mason and carpentry work for $37,970; Nixon & Lamont, of Titusville, Pa., $50,429; Robert E. Williams, of Buffalo, $43,199; Morse & Allen, of Buffalo, $42,827; William Stokes & Sons, Buffalo, $59,694; Neiderpreum Co., of Buffalo, $44,700. Robert North, Prudential Bldg., Buffalo, N. Y., is Arch.

PATERSON, N. J.—William Johnson, Inc., 26 State St., Hartford, Conn., has completed plans for three apartment houses to be erected at Wood and Clark Sts., Paterson, for Isaac Wrubel, of Middletown, Conn. They will cover a total area of 100 × 100 ft., and will be four stories high, of tapestry brick, with limestone, granite and marble trim, steam heat, fire escapes, plaster boards, galvanized iron cornice, slag roof, etc.

TRENTON, N. J.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of an additional story to the Trenton post-office to M. P. WELLS, Witherspoon Bldg., Philadelphia, at $38,900. Time, Nov. 1, 1910.

JERSEY CITY, N. J.—John J. Hogan, 67 Mangolia Ave., will erect a 4-story brick and terra-cotta, 21-family apartment house, 114 × 50 ft., at Magnolia and Chestnut Aves., to cost $45,000. Geo. W. Von Arx, 15 Exchange Pl., Jersey City, is Arch.

Wisconsin Jackson, 554 Westside Ave., will erect four 4-story brick and bluestone apartments, 125 × 100 ft., at the southwest corner of Communipaw and Westside Aves., to cost about $70,000. E. M. Patterson, 1 Montgomery St., is Arch. Bids will be taken by the architect about April 1.

JERSEY CITY, N. J.—We are officially advised that bids for excavation of earth and rock on the site of the Technical High School, the building of a masonry retaining wall on the grounds and disposal of the excavated material behind same, were received by the Board of Education of Jersey City on Jan. 14, as follows: Thomas Harrington & Sons, Jersey City, $19,500; McCabe Bros., Bayonne, N. J., $41,662; M. T. Connelly Construction Co., Jersey City, $39,900; M. J. Curley, Jersey City, $21,780; John T. Rowland, Jr., is Superv. Arch., 15 Exchange Pl., Jersey City. Charles H. Higgins, Commercial Trust Bldg., Jersey City, is Consult. Engr.

*RED BANK, N. J.—Bids are asked until 4.30 p. m., Feb. 7, by W. A. Shoemaker, Arch., Broad and Monmouth Sts., Red Bank, for the erection and completion of a 65-ft. bell tower for the Borough of Red Bank, N. J., to be completed on or before March 21.

ATLANTIC CITY, N. J.—Seymour & Paul A. Davis, Archs., 1600 Chestnut St., Philadelphia, Pa., have been commissioned to plan a $75,000 school to be built in Atlantic City.

PHILADELPHIA, PA.—Thomas J. & Joseph R. Whelan have bought a tract bounded by Ninth, Tenth, Butler and Pine Sts., and intersected by Percy and Delhi Sts., from Frank H. Moss. The purchasers will begin work at once on 180 2-sty houses, to cost about $450,000; 65 will have two stories, porch fronts, fronting on Tenth, Butler and Ninth Sts., and 108 also two stories without porches, on Percy and Delhi Sts. Five 2-story stores will front on Butler St. and one of three stores will be built at the northwest corner of Ninth and Butler Sts. The interior finish throughout will be hard wood.

Plans are being completed in the office of Milligan & Webber, Archs., 520 Walnut St., for a 4-story and basement apartment house, 100 × 144 ft., to be built at the northwest corner of 44th and Walnut Sts., for Meyer Rosenstein. It will cost about $200,000.

Plans have been finshed by E. Simpson Lemmon for the new building to be erected at the southeast corner of Broad and Fitzwater Sts. for the Women's Southern Homeopathic Hospital, now at 724 Spruce St. The building will be of stone and terra-cotta, 40 × 80 ft., six stories high. It will cost $50,000. The operating room will be located in the top story, and a roof garden will be constructed for the use of convalescents, doctors and nurses.

Plans are being prepared by Stearns & Caster, Archs., Stephen Girard Bldg., for the erection of a 4-story brick and stone memorial building, to be known as Bradley Hall, on the grounds of the Methodist Hospital, Broad and Wolf Sts., to cost about $50,000. The building is the gift of Thomas Bradley. The architecture of the proposed structure will be of the Elizabethan style and will conform with the style of the hospital, nurses' home and isolating building. The lot on which the hall will be constructed has a frontage of 50 ft. and a depth of 100 ft. It is expected to award the contract so that operations for the erection may be commenced early in the Spring.

CHESTER, PA.—Bids were received as follows on Jan. 11 by the Supervising Arch. of the Treasury, Washington, for the construction of an extension and the remodeling of the post-office building at Chester, Pa.: M. P. Wells, Witherspoon Bldg., $45,830; R. C. Ballinger & Co., 218 North 18th St., Philadelphia, $50,980; J. E. & A. L. Pennock, Land Title Bldg., Philadelphia, $48,600; W. H. Fissell & Co., 1133 Broadway, New York, $48,300; George A. Glenn & Co., 930 North Eighth St., Philadelphia, $48,500; Charles McCaul & Co., Tenth and Sansom Sts., Philadelphia, $51,973; Engineering Construction Co., 502 St. Paul St., Baltimore, $43,000; P. J. Hurley, 1216 Chancellor St., Philadelphia, $49,590.

MONT ALTO, PA.—Ten 2½-story frame cottages are to be built at Mont Alto. Plans for the work have been made. The contract has been awarded to JOHN J. WATSON, Bateman St., and calls for structures with stone foundation and roofing of slate. The improvements will cost about $50,000.

FRANKLIN, PA.—The bids for the proposed new county jail were received on Jan. 11 and that of the STEWART IRON WORKS CO., 17th St. and Madison Ave., Cincinnati, was found to be the lowest at $35,495. The contract was awarded on this bid. The other bids were as follows: Nixon & Lamont, Titusville, Pa., $39,343; Corrin & Witt, Franklin, $39,994 for native blue sandstone, which the plans and specifications call for, $3,000 more for Cleveland stone; C. I. Goerman & Co., Butler, Pa., $41,647 for native stone, $46,000 for Ohio stone; Theobald & Thomas, Franklin, $42,865; Henry Schenk & Co., Erie, Pa., $45,000; Milson & Bierkamper, Kittanning, Pa., $46,000; Dean & Havens, Olean, N. Y., $46,257; Meals & Johnson, Titusville, $46,876; Thiele Construction Co., Johnstown, Pa., $48,677.

BALTIMORE, MD.—Public School No. 2 will be erected at Stiles and Little Gough Sts. The structure will have three stories and a basement, and will be 80 × 151 ft. on a lot 92 × 157 ft. The school will be fireproof and heated by steam. The contract has been awarded to the ENGINEERING CONTRACTING CO., 502 St. Paul St., which will start the work as soon as the old buildings are torn down. The plans were drawn by Otto G. Simonson, Arch., American Bldg. The improvements will cost about $120,000.

WASHINGTON, D. C.—Bids were received as follows on Jan. 18, by the Commissioners of the District of Columbia for the construction of a 4-room addition to the Monroe School building on Columbia Road, between Sherman and Georgia Aves., Mount Pleasant, D. C.: Boyle-Robertson Construction Co., Union Trust Bldg., $39,916; James M. Dunn, Anacostia, $37,777; W. E. Mooney, Lenman Bldg., $38,999; George E. Wyne, Munsey Bldg., $38,700; W. H. McCray, Bond Bldg., $38,500; Thomas H. Melton, 621 F St., N. W., $37,990; Burgess & Parsons, 612 13th St., N. W., $39,419. All bidders of Washington, D. C.

WASHINGTON, D. C.—The Noel Construction Co., German and Cobert Sts., Baltimore, Md., which has been awarded contract for the naval hospitals at Chelsea, Mass.; Newport, R. I., and Portsmouth, N. H., has awarded sub-contract for plumbing in the three groups of hospitals to WARNER & RITTENHOUSE, 1209 Ninth St., N. W., Washington. The contract is $60,000. It has also awarded contract for concrete work and fireproofing to the ARMORED CONCRETE CONSTRUCTION CO., 5 West 31st St., New York. The contract calls for $80,000.

*HENDERSON, N. C.—Notice is given that the time for opening bids for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), at the U. S. postoffice, at Henderson, has been extended from Jan. 15 to 3 p. m. Feb. 18. James Knox Taylor is Superv. Arch., Treasury Dept., Washington, D. C.

AUBURN, ALA.—A mechanical and textile building to cost $40,000 was to-day authorized by the trustees of the Polytechnic Institute at Auburn. The Governor has announced that the stringency in the State funds had been relieved, the balance being $600,000, and the funds can now be had.

BIRMINGHAM, ALA.—It is proposed to erect an 8-story reinforced concrete or steel frame Y. M. C. A. building in Birmingham.

The structure will cost about $200,000. Under the proposed plans, the building will have a frontage of 85 ft. on the site now occupied by the Y. M. C. A., and will run back to the gymnasium building, a distance of 75 ft. The gymnasium building covers half of the lot, or is 85 x 75 ft., and was erected with a view of being merged with such a building as is proposed. When the new building is completed, the combined structures will cover a lot 85 ft. front by 150 ft. deep, giving a 5-ft. alley on the side. C. H. Moorman is State Secy.

MERIDIAN, MISS.—Notice is given that the time for opening bids for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring and standard clock system), of the U. S. post-office and court-house at Meridian, has been extended from Feb. 8 to March 2. James Knox Taylor is Superv. Arch., Treasury Dept., Washington, D. C.

SHREVEPORT, LA.—W. H. WERNER, of Shreveport, La., has the contract for constructing a high school building in this city, at $66,000, his bid being the lowest of several considered. Work will begin at once on the building.

BRISTOL, TENN.—Bids were received as follows on Jan. 12 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of extension to the post-office at Bristol, Tenn.: Newport Contracting & Engineering Co., Newport News, Va., $36,260; Luke T. Lowe, Bristol, Tenn., $36,000; M. P. Wells, Philadelphia, $35,070; W. H. Fissell & Co., 1133 Broadway, New York, $33,570; D. J. Phipps, Newport News, Va., $31,900; David W. Getaz Sons & Co., Knoxville, Tenn., $35,000; George Moore & Sons, Nashville, Tenn., $36,982; Smith & Wilson, Bristol, Tenn., $38,978; George Becking, Chattanooga, Tenn., $36,129. Time, March 1, 1911.

HOPKINSVILLE, KY.—The City Council has ordered the purchase of six acres of land in the southern part of the city. It is proposed to erect on this site a building costing not less than $75,000 to build and equip, which is to be used as a high school.

*LOUISVILLE, KY.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 18, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the laundry and attendants' quarters, U. S. Marine Hospital, Louisville, Ky.

PORTSMOUTH, OHIO.—The Board of Education has given a comission to make plans for the proposed high schol building to Albert Pretzinger, Arch., Leibold Bldg., Dayton, Ohio. The building will cost about $105,000.

ATHENS, OHIO.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Athens, Ohio, to JOHN G. UNKEFER CO., Minerva, Ohio, at $72,792. Time, Jan. 1, 1911. A complete list of bids was given in issue of Jan. 6.

MARION, IND.—BARNES BROS., general contractors, have been awarded a contract for the construction of the Boston Store business block, at $45,000.

PLYMOUTH, IND.—The Plymouth Sanitarium and Hospital Association has awarded a contract to EVERY & WALLACE for the construction of a 4-story brick, concrete and steel sanitarium and hospital building. Bids will be received next for the installation of a heating plant, laundry, elevator, cold storage and electric equipment. Ralph M. Snyder, 1217 Wilt St., Fort Wayne, Ind., is Arch.

DETROIT, MICH.—We are officially advised that Postle & Mahler, Archs., 1732 Marquette Bldg., Chicago, Ill., have awarded the general contract for the proposed $100,000 reinforced concrete Healy building, to be built on Woodward Ave., Detroit, to the CAREY CONSTRUCTION CO., Lennox Bldg., Cleveland, Ohio.

ST. PAUL, MINN.—The Congregation of St. Agnes' Catholic Church, Rev. J. N. Coince, Pastor, is asking bids for the construction of the superstructure of its proposed church at Kent and Thomas Sts., according to plans of George J. Ries, Arch., city. It will be of fireproof construction, with cut stone exterior. Cost, $60,000.

OMAHA, NEB.—The Union Pacific R. R. Co. is to have a headquarters building in Omaha, it is stated. Bids for its construction have been authorized. Its estimated cost will be $1,000,000 and the plans are to be drawn by Jarvis Hunt, 527 Fifth Ave., New York, and Monadnock Bldg., Chicago. When completed all the company's offices will be located in the structure instead of being scattered over the city as they are now. R. L. Huntley, Omaha, is Ch. Engr.

PIERRE, S. DAK.—Plans have been prepared by Glen L. Saxton, Security Bank Bldg., Minneapolis, Minn., for a hotel. The building will cover a quarter of a block in the business section of Pierre. Terra cotta, sandstone and sandmould brick are the materials to be used for the exterior. All partitions will be of hollow tile. It will have three full stories and a 9-ft. basement. There will be a sub-basement for the heating plant.

COLUMBIA, MO.—A $250,000 library building will be recommended by the Board of Visitors of the University of Missouri, who have inspected the university here. W. O. L. Jewett, of Shelbina, a member of the board, has stated that the committee will also recommend that the Missouri Agricultural College, a department of the State University, be given any sum it asks for extending its work.

AUSTIN, TEX.—The contract for the erection of the American National Bank building has been awarded to the AMERICAN CONSTRUCTION CO., of Houston, Tex. The consideration is $410,000, which includes everything in connection with the building with the exception of bank fixtures and elevators. Works is to commence at once and is to be completed within a year.

SEATTLE, WASH.—Building permits have been issued as follows: For a 5-story apartment house, to be erected at 115-119 Blanchard St., to cost $70,000, for N. Barrett; to the Orthopedic Hospital Association, to erect a 4-story reinforced concrete children's hospital at 2110 Warren Ave., to cost $80,000; for a $36,000 store building at 200 Fifth St., South, issued to W. W. Hofrous.

PORTLAND, ORE.—Plans have been prepared by H. J. Hefty, Arch., Lumber Exchange, Portland, for two 6-story buildings to be erected at a combined cost of $125,000, one on the H. J. Morrison property on Fourth, between Salmon and Taylor Sts., with apartments on upper floors. The other on the southeast corner of Fourth and Salmon Sts. to be six stories in height, Class A and fireproof. Cost, $50,000. The upper floors are to be used as apartments.

Announcement is made by the Meier & Frank Co. of the proposed construction of a 10-story annex to the present 10-story building on the site occupied by the 5-story brick building on the west side of Fifth St., between Alder and Morrison Sts. The structure will conform exactly with the building at Sixth and Alder Sts., completed last summer. The improvement will cost $1,500,000. The building will occupy the entire frontage on Fifth St., between Morrison and Alder Sts. This, with the present 10-story building, will give a frontage of 200 ft. on both Fifth and Alder Sts., 100 ft. on Morrison St. and 125 ft. on Sixth St. The building will be Class A, fireproof, with a white enameled terra-cotta exterior. It will have eight additional passenger elevators. Doyle & Patterson, Worcester Bldg., are Archs.

BAKERSFIELD, CAL.—The plans of Frederick H. Meyer, Arch., Humbolt Bank Bldg., San Francisco, for the proposed Kern County court-house, were awarded first prize on Jan. 5. G. A. Lansburgh, of San Francisco, won the second prize of $500, and O'Brien & Werner, of San Francisco, the third prize, $250. The court-house will cost approximately $350,000. The first floor and basement will be of granite. The remainder will be of sandstone and terra cotta. The architecture is of the Roman style. The rotunda will be 98 ft. high. The court-house proper will be 65 ft. high and will have three stories.

LOS ANGELES, CAL.—I. N. Van Nuys plans to erect a $1,000,000 office or hotel building on the corner of Spring and Seventh Sts. this year. It will be a Class A building.

T. L. Tally will erect a $200,000 theater on Broadway, between Eighth and Ninth Sts. Train & Williams, 254 South Broadway, Los Angeles, are Archs. Noted last week.

Bids for the construction of the Los Angeles Manual Training High School, to be erected on a 10-acre tract at Vermon Ave. and 42d St., will be advertised for at once. Parkinson & Bergstrom, Archs., Security Bldg., have completed the plans for the group of four buildings upon which construction work will begin as soon as possible. The shops will contain joining, planing and finishing rooms for wood working, with drying kilns, a forge-room, machine shop and foundry, with material storerooms and the most modern tools for the working of wood and metal.

F. O. ENGSTROM CO., 451 Colyton Ave., Los Angeles, was awarded contract on Jan. 10 to erect an operating pavillion and annex to the Nurses' Home at the County Hospital, at about $40,000. Hudson & Munsell are Archs., Stimson Bldg.

FILLMORE, CAL.—Bids are asked until Jan. 21 by the Board of Trustees of the Fillmore Union High School District, Ventura County, for the erection and completion of a one-story and basement concrete or brick school building. Plans and specifications by A. C. Smith, Arch., 307 South Broadway, Los Angeles. F. L. Fairbanks is Clerk of Trustees, Fillmore. Estimated cost, $100,000. The building will be 154 x 114 ft.

PHOENIX, ARIZ.—M. J. Bliesnir, Arch., Phoenix, Ariz., has been commissioned by a company of local capitalists to prepare plans for a tourist hotel with 400 rooms, six stories, and of steel frame, fireproof, brick construction, 300 x 130 ft. Estimated cost, $800,000. The building will be erected on Washington St. Those interested are Joseph Thalheimer, Louis Killeen, M. J. Pettid and others.

SALT LAKE CITY, UTAH.—The contract for the proposed Daly building which is to be erected at the corner of Main and Fourth Sts., adjoining the Newhouse buildings, has been awarded to the THOMPSON-STARRETT CO., Bush and Kearny Sts., San Francisco. The minimum cost of the building is $120,000, and it may be $160,000. There were 14 bidders for the contract. Plans have been prepared by J. C. Craig, D. F. Walker Bldg., for both a 3-story and a 5-story building. The frontage of either will be 100 ft. on Main and 165 on Fourth South St.

QUEBEC, QUE.—The Transcontinental Railway Commission probably will erect a union station. It is stated that the station and approaches will cost about $5,000,000. Hon. S. N. Parent is Chn. of the Comn.

WATER-SUPPLY—IRRIGATION.

(* *denotes that this work is advertised in Engineering News.*)

HYDE PARK, MASS.—An agreement of purchase has been entered into by the town of Hyde Park and the Hyde Park Water Co., by which the town is to purchase the property of the water company for $416,000. The transfer of the property is to take place on April 10, providing the agreement to purchase is ratified by the shareholders of the company and the inhabitants of the town.

WATERBURY, CONN.—Bids will be received by the Board of Public Works until Feb. 1, for laying a main from the new Morris reservoir to a point below the Branch dam. Estimated cost, $50,00.

*NEW YORK, N. Y.—Bids were opened on Jan. 11, as follows, at the office of the Board of Water Supply for Contract 52, for the construction of portions of the White Plains division of the Catskill aqueduct, the work including three tunnels on the hydraulic gradient aggregating 1.6 miles in length, one being 17 ft. high by 13½ ft. wide inside, and two 17½ ft. high by 13¾ ft. wide inside; and about 2.8 miles of plain concrete conduit known as cut-and-cover aqueduct, 17½ ft. high by 18 ft. wide inside; the work is located in the towns of Mount Pleasant and Greenburgh, Westchester County: Pittsburg Contracting Co., 1942 Forbes St., Pittsburg, Pa., $2,205,852; J. F. Cogan Co., Brewster, N. Y., $2,326,530; Carter Contracting Co., 90 West St., New York, $2,435,628; Breuchaud-Winston Co., 290 Broadway, New York, $2,479,155; David Peoples, Betz Bldg., Philadelphia, Pa., $2,497,750.

*NEW YORK, N. Y.—The following were the bids received on Jan. 18 by the Board of Water Supply for Contract 41, furnishing and installing 20 5x 15 ft. sluice gates, 20 operating mechanisms, eight 66-in. stop-disk frames, four 66-in. stop-disks and three sets of drive shafting for various structures along the line of the Catskill Aqueduct, at Mount Vernon, Westchester County: N. J. Foundry & Machine Co., 90 West St., New York, $95,730; John Fox & Co., 253 Broadway, New York, $99,205; N. E. Const. Co., 225 5th Ave., New York, $159,292; Ogden Iron & Steel Co., 143 Cedar St., New York, $111,855; Caldwell Wilcox Co., Newburgh, N. Y., $103,338.

*NEW YORK, N. Y.—The following were the bids received by the Board of Water Supply on Jan. 18 for Contract 68, for the construction of seven steel pipe siphons, consisting of riveted steel shells, 9 ft. 9 ins., and 11 ft. 3 ins. nominal inside diameter, enveloped with concrete and lined with Portland cement mortar, aggregating 2.6 miles; also several stretches of aqueduct in open cut and embankment or cut-and-cover aqueduct aggregating about 250 ft.: David Peoples, Betz Bldg., Philadelphia, Pa., $1,189,557; East Jersey Pipe Co., 90 West St., New York, $1,203,757; Breuchaud-Winston Co., 290 Broadway, New York, $1,237,232; N. E. Construction Co., 225 Fifth Ave., New York, $1,318,510; Pittsburgh Contracting Co., 1942 Forbes St., Pittsburg, Pa., $1,516,195; F. V. Smith Contracting Co., 215 West 125th St., New York, $1,266,330; Wm. F. Norton, 215 West 125th St., New York, $1,271,375; Snare & Triest, 143 Liberty St., New York, $1,468,640.

AUBURN, N. Y.—Hazen & Whipple, 103 Park Ave., New York, have completed plans and specifications for the construction of the proposed filtration plant.

PLATTSBURG, N. Y.—The Board of Public Works, on Dec. 17, awarded contract for the construction of the new reservoir dam on the Meade brook to J. J. FITZPATRICK & SONS, at about $31,000.

BROOKLYN, N. Y.—No bids were opened on Jan. 12 at the office of the Commissioner of Water Supply, Gas and Electricity, New York, for furnishing, delivering and laying trunk distributing water mains in Glenmore, Pennsylvania and Bushwick Aves., and in Madison St., Brooklyn, and in Westervelt, Beechwood and other streets in Richmond Borough, the advertisement having been withdrawn before date of opening.

BUFFALO, N. Y.—Contract for the extension of the Pearl St. pipe line to connect with the terminus of the Washington St. pipe line, has been awarded to FRED. I. MUMM, of Buffalo, at $6,549. F. G. Ward is Comr. Pub. Works.

SOUTH RIVER, N. J.—The citizens on Jan. 4 voted to construct water-works from the plans of W. W. Young, 220 Broadway, New York.

ATLANTIC CITY, N. J.—Reservoirs capable of holding enough water to supply the city for more than a week in case of accident to the pumping plant at Absecon or to the meadow pipe lines will be erected in Atlantic City during the year, under an ordinance introduced in the Council on Jan. 10.

TACOMA PARK, D. C.—Bids will be received by Benjamin G. Davis, 110 Oak Ave., Tacoma Park, until Jan. 31, for construction of a filter plant.

PETERSBURG, VA.—See item under Sewerage.

PARKERSBURG, W. VA.—Contracts have been awarded by the city as follows: To CANTREL CONSTRUCTION CO., of Parkersburg, for water pipe, at $12,131, for hydrants, valves, etc., to JAMES B. CLOW & SONS, at $4,504. Bids were opened on Jan. 6. Frank Good is City Audr.

WHEELING, W. VA.—The Board of Control on Jan. 7 in conference with T. Richard Kommer, Consulting Engr., decided to make changes in the plans for the new pump house to be erected at the water-works. The plans, as originally approved and on which bids were asked, provided for a stone building, but the revised plans call for a building constructed of brick. Noted on Jan. 13.

FORT MOULTRIE, (Moultrieville post-office), S. C.—Bids were opened at the office of the Constructing Quartermaster, U. S. A., on Dec. 9, for constructing seven reinforced concrete cisterns at Ft. Moultrie. Contract has been awarded to R. E. & E. N. Beatty, of Charleston, S. C., at $6,453.

PLAQUEMINE, LA.—The Mayor and City Council on Jan. 5, decided to rebuild at once the water-works recently destroyed by fire. A brick building will be erected and two 80 HP. boilers installed. A steel tower, 90 ft. high with a 50,000-gallon tank, will be erected.

LOUISVILLE, KY.—The Louisville Water Co. will probably repair the Crescent Hill reservoir this spring. Estimated cost, $30,000. S. Zorn is Pres.

TOLEDO, OHIO.—The Council Committee on Public Improvements on Jan. 12, approved the ordinance providing for a high pressure fire main system in the downtown district of the city.

*DETROIT, MICH.—We are officially advised that bids were received on Dec. 28, by the Board of Water Commissioners for furnishing and erecting structural steel and iron work for engine room building of the new pumping station. Contract has been awarded to the WISCONSIN BRIDGE & IRON CO., Milwaukee, Wis. Smith, Hinchman & Grylls, Detroit, are Archs. Benj. F. Guiney is Secy. Bd.

BURLINGTON, IOWA.—Bids will be received by the Supervisors of Des Moines County at Burlington until Feb. 2 for furnishing and erecting a complete pumping station, including the buildings and machinery. For plans and specifications and further information apply to the Harman Engineering Co., 120 Fredonia Ave., Peoria, Ill.

WATERLOO, IOWA.—The citizens voted on Jan. 4, to issue $525,000 of bonds to purchase the water plant at $362,000, the balance to be used for extensions.

WILSON, KAN.—George Taylor, Consulting Engr., Stockton, Kan., is preparing plans for the construction of a water-works system in Elsworth County.

ENCAMPMENT, WYO.—The French Creek Irrigation Co., of Encampment, is preparing plans for its irrigation project. Several wooden siphons and steel flumes will be required. Estimated cost, $300,000. J. A. Whiting is Ch. Engr., Cheyenne, Wyo.

KANSAS CITY, MO.—Plans and specifications for a new 48-in. intake pipe from the Missouri River to the Quindaro pumping station were ordered on Jan. 1, by the Fire and Water Board. The city's sole dependence at present is a 42-in. pipe. The new line will be about 1,800 ft. long. Estimated cost, about $12,000. William Clough is City Clk.

SEARCY, ARK.—See item under Light and Power Plants.

ATLANTA, TEX.—Contracts for water-works bids, opened on Dec. 20, have been awarded as follows: General construction to the SOUTHERN GAS & GASOLINE ENGINE CO., of Houston; pipe and specials to the RUSK IRON WORKS; valves and hydrants to the FAIRBANKS CO. Contracts for pipe laying and construction of reinforced tanks not yet let.

DENVER, COLO.—On Jan. 7, the Greeley-Poudre Irrigation District awarded contract to KINGSBURY BROS., of Masters, for the construction of the March reservoir in the center of the district and twelve miles east of Ault, at $150,000. The reservoir will have a capacity of 500,000,000 cu. ft. of water.

HARRY KNOWLTON, of Denver, secured contract for the Eastlake reservoir east of Nunn, which will have a capacity of 1,000,000,000 cu. ft. of water. Estimated cost, $200,000.

The Bear River Irrigation & Construction Co., has been organized to operate in Routt County. The water supply for the project will be taken from the Bear River just below Steamboat Springs. Construction work will probably start in the spring.

DENVER, COLO.—The Directors of the Henrylyn Ditch & Reservoir Project have awarded contract to the CAMFIELD CONSTRUCTION CO. for irrigation work, contract providing for the irrigation of about 120,000 acres of land near here, at about $4,421,500.

FORT LOGAN, COLO.—E. D. HENDRIE, of Denver, has secured the contract for remodeling the pumping plant for steam and electricity at Fort Logan at $18,500.

GLENWOOD SPRINGS, COLO.—The citizens voted on Jan. 4 to issue $125,000 of bonds to purchase present water-works or construct a municipal plant.

SOUTH CANON, COLO.—The city has entered into an arrangement with G. R. GWILLIM of Canon City, Colo., for the construction of a system of water-works. The money for the building of the system has been furnished by Thomas C. Pease, of Colorado Springs, Colo., capitalist and broker. A franchise has been granted and it is understood the work will begin within 30 days. Water will be piped from three artesian wells at Chandler, seven miles south. These wells lie in an artesian basin of 1,400 acres and are now flowing at the rate of nearly 500,000 gallons a day. It will be a gravity system and all the streets of South Canon are to be piped and the water delivered free at the curbstone. A large reservoir will be constructed in the vicinity of Prospect Heights. Estimated cost, $50,000.

WAHLUKE, WASH.—The KILBOURNE & CLARK CO., 113 Marion st., Seattle, has been awarded contract by the Columbia River Orchard Co. for the construction of irrigation pumping plant to irrigate 15,000 acres of land near here. The contract calls for an electrically driven plant of four units of 10,000 gallons per minute capacity.

PORTLAND, ORE.—Plans and specifications for the proposed new pipe line from Bull Run to Portland have been completed by D. D. Clarke, Engr. Water Dept., and will be presented to the Water Board. Bids will be asked for building this aqueduct and the contract let within the next few weeks. The new line will parallel the one now in use and will have a capacity of 40,000,000 gallons daily.

PORTLAND, ORE.—W. H. Bradford, E. C. Belknap and Charles H. Glein have filed articles of incorporation of the Warner Lake Irrigation Co., for the purpose of developing an irrigation, power and reclamation system in Warner Valley, Lake and Harney Counties. Capital stock, $250,000.

RED BLUFF, CAL.—Articles of incorporation of the Sierra Irrigation Co. have been filed here. The principal place of business is Red Bluff. The directors are: H. C. Swain, Alva Dennis, O. C. Coombs, W. L. Bransford, and J. J. Wells. The object is to locate and appropriate waters of the Sacramento River for sale to users, to generate electricity, manufacture gas and to supply companies, individuals and municipalities with the same. This corporation is the reorganization of the Valley Irrigation Co.

REDONDO, CAL.—Bids are asked until Jan. 24 by the Board of Trustees for installing an auxiliary pumping plant, consisting of a centrifugal or turbine series horizontal pump and for a marble switchboard. Charles J. Creller is City Clerk.

SAN BERNARDINO, CAL.—The Fontana Water Co., of San Bernardino, organized with a capital stock of $400,000 to take over the water rights of the Lyttle Creek Water Co. and construct an irrigation system, has engineers in the field making surveys. The sum of $250,000 will be expended on the system.

OGDEN, UTAH.—The Pneumatic Water Lift Co. filed articles of incorporation with the County Clerk on Jan. 4. The company proposes to promote irrigation projects throughout the state and construct pumping plants and dams. Capital $100,000. Edward D. McGriff is Pres.

NAMPA, IDAHO.—We are officially advised that the Nampa-Meridian Irrigation District will receive bids until 2 p. m., Jan. 22, for cementing the Ridenbaugh canal near Boise, Idaho. Estimated cost, $60,000. There will be required for about 4,750 bbls. of cement. The banks of the canal will be graded and trimmed. There is plenty of sand and gravel close at hand to the work. G. T. Hamill is Secy., Nampa, Idaho. A. J. Wiley, Boise, is Engr.

THAMESVILLE, ONT.—The citizens voted on Jan. 3 to issue $10,000 bonds for water works.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

PITTSFIELD, MASS.—The Mayor in his annual message recommended the construction of a sewer from Elm St., near Root Place, southeasterly to the river and easterly along the river front into the Lakewood tract. The new Pontoosuc sewer will be constructed early in the spring from Wilson St. to the Pontoosuc School.

PROVIDENCE, R. I.—The Council has passed a resolution to petition the State Legislature for permission to issue an additional $500,000 for sewer construction.

BROOKLYN, N. Y.—Bids will be received until Jan. 26 by Alfred E. Steers, Boro. Pres., for furnishing material and constructing sewers in 61st, Sterling, 82d and Tremont Sts. and Washington Ave., and an outlet sewer in Eleventh Ave., requiring in all about 5,795 lin. ft. of from 24 to 12-in. pipe and 5,160 lin. ft. 6-in. house connection drain, etc.

NEW YORK, N. Y.—Bids will be received until Jan. 24 by the Boro. Pres., Manhattan, E. W. Frothingham, Acting Pres., for furnishing material and constructing a sewer in Park Ave., requiring 185 lin. ft. of brick sewer, 3 ft. 6 ins. x 2 ft. 4 ins. interior diameter, etc.

ROCHESTER, N. Y.—E. A. Fisher, City Engr., has completed surveys and investigations for a new sewage disposal system, which proposes carrying the sewage direct to the lake after passing through a reduction plant to be built at Irondequoit. The plan recommended is the construction of a sewer in a deep tunnel beginning at the intersection of the First St. outlet sewer in Central Ave.

KINGSTON, N. Y.—The citizens on Jan. 5 voted to construct about nine miles of sewers and a sewage disposal plant. George N. Bell, of Kingston, is Engr.

BINGHAMTON, N. Y.—John A. Giles, City Engr., is preparing plans for the extension of the Conklin Ave. trunk line sewer. It is planned to build a trunk line to drain the district between Conklin Ave. and the Susquehanna River. This will be joined with the Conklin Ave. sewer, which, in turn, will be turned into the new trunk line. The new sewer will probably be constructed under the proposed South Side Park and will empty into the Susquehanna River at its junction with the Chenango River.

GLOVERVILLE, N. Y.—A. L. WILLEY, of Binghamton, N. Y., has been awarded contract by the city for the construction of a sewage disposal plant, at $182,244. Bids were opened on Dec. 21. List of bidders noted on Jan. 13. Harrison P. Eddy is Consulting Engr., 14 Beacon St., Boston, Mass.

WATERTOWN, N. Y.—Bids are asked by the Board of Public Works until 8 p. m., Jan. 21, for the construction of an 8-in. sanitary tile sewer in Grand Ave., about 600 ft. long. E. W. Sayles is City Engr.

PATERSON, N. J.—Nothing definite has yet been decided upon for the construction of the proposed sewer system in the Lakeview section. The matter will probably be taken up early in the spring. Estimated cost of trunk line, about $25,000. Estimated cost of the entire system, $200,000. H. J. Harder is City Engr.

DORMONT, PA.—The SAWDERS PAVING & CONSTRUCTION CO., 26th St. and Allegheny Valley Ry., Pittsburg, Pa., has been awarded contract by the city, at $27,000, for the construction of a sanitary sewerage system. The work includes 32,800 lin. ft. of 8-in. pipe at 55 cts. per lin. ft.; 5,000 lin. ft. of 10-in. pipe, at 57 cts. per lin. ft.; 4,000 lin. ft. 12-in. pipe, at 59 cts. per lin. ft. Contract does not include manholes and lampholes. Bids were opened on Dec. 30.

PETERSBURG, VA.—The city will spend $100,000 for the extension of sewer and water systems and street and sidewalk paving.

PENSACOLA, FLA.—The city is considering the construction of storm sewers for drainage of 40 to 50 acres in the northwestern part of the city. Estimated cost, $8,000. L. Earle Thornton is City Engr.

TUSCALOOSA, ALA.—The city is having plans prepared and will soon let contracts for the construction of sanitary sewers. Estimated cost, $25,000. W. H. Nicol is City Engr.

ANNISTON, ALA.—Bids are asked until Jan. 26 by the city for the construction of a sanitary sewer. J. L. Wikle is Mayor.

RAYMOND, MISS.—H. D. GASTON, Jackson, Miss., has been awarded contract, at $4,500, for installing a tank and sewer system for the court-house and jail.

BELZONA, MISS.—Walter G. Kirkpatrick, Jackson, Miss., is making surveys for the construction of a system of house sewers, comprising four or five miles of pipe sewers, discharging into the Yazoo River.

CHATTANOOGA, TENN.—The City Council on Jan. 3 passed the ordinance providing for the construction of the Dorris St. sewer.

*LOUISVILLE, KY.—Bids were opened on Dec. 31 by the Commissioners of Sewerage for Contract 60, for constructing Section F of the Bluegrass intercepter. The lowest bid was that of the Blackstaff Engineering Co., of Philadelphia, Pa., as follows: 3,203 lin. ft. of earth excavation, $6.50 to $12 per lin. ft.; 10 cu. yds. of rock excavation, $5; 731 cu. yds. Class A concrete, $10; 21,400 lbs. of plain steel bars, 3¾ cts.; 21,300 lbs. deformed steel bars, 3¾ cts.; 40 cu. yds. of excavation below masonry, $2; 40 cu. yds. gravel refill, $2; vitrified pipe and fittings, $211; 3,203 lin. ft. of 8-in. underdrain, 25 cts.; timber foundation, $123; cleaning up, $100. Total, $34,226. Other bids were: H. Bickel Co., Louisville, $45,338; D. F. O'Connell, Dorchester, $60,021; C. T. McCracken & Co., Columbus, Ohio, 65,506. J. B. F. Breed is Ch. Engr.

CLEVELAND, TENN.—We are officially advised that the Solomon-Norcross Co., Engrs., Atlanta, Ga., have been appointed engineers for the city, where a sewerage system and sewage disposal plants will soon be installed. Work on surveys and plans has begun. Estimated cost, about $35,000.

LOUISVILLE, OHIO.—Bids will be received by Harry L. Rebrassier, Village Clk., until Feb. 7, for furnishing material and constructing sewers and sewage disposal works from plans of F. E. Myers, of Canton.

ALLIANCE, OHIO.—J. O'NEIL, Akron, Ohio, has been awarded contract, at $28,043, for the construction of two miles of sewer in Broadway to the new disposal plant, with vitrified pipe 20, 24 and 30 ins. in diameter. Noted last week.

Contract for constructing sewage disposal plant here has been awarded by the city to J. C. DEVINE, of Alliance, at $92,003.

COLUMBUS, OHIO.—The City Council has adopted a resolution declaring it to be necessary to construct a sewer in State St., in the alley west of Levee and Capital St., in the alley north of Emerald St., in the alley west of Brighton St., in the alley west of Lockbourne St., in Studor St., in alley north of Schiller St., and in alley south of Schiller St. Bids for this work and the improvement of several streets will be asked soon.

JEFFERSON, OHIO.—The City Council has passed an ordinance authorizing the construction of a sewage disposal plant and sewer system. Estimated cost, $45,000.

MICHIGAN CITY, IND.—It is proposed to construct a reinforced-concrete sewer in Willard St. Estimated cost, about $35,000. Harry M. Miles is City Engr.

FORT WAYNE, IND.—Bids are asked by the Board of Public Works until 7.30 p. m., Jan. 27, for the construction of a sewer in Watkins St. and other streets. H. W. Decker is Clk.

MUSKEGON, MICH.—Bids were opened on Jan. 3 by the City Council for completing the Spring St. sewer. Contract has been awarded to the NORTHERN CONSTRUCTION CO., of Elkhart, Ind., at $42,930.

CANTON, ILL.—A. T. Maltby, Great Northern Bldg., Chicago, Ill., is preparing plans for rebuilding and enlarging the sewer system. Estimated cost, $150,000.

MILWAUKEE, WIS.—Contract for constructing a concrete relief sewer in Brown St. has been awarded to GEORGE E. ZIMMERMAN, McKinley Boulevard, Milwaukee, at $18,000. Bids were opened on Jan. 7. Charles J. Poetsch is City Engr.

TRAER, IOWA.—Bids will be received by T. F. Stoakes, City Clk., until Jan. 28, extension of date from Jan. 13, for constructing a sanitary sewer system, consisting of 13,294 ft. of 6, 8, 10, 12 and 15-in. pipe, 27 manholes, four drop manholes, four flush tanks and one septic tank and bulkhead.

ATCHISON, KAN.—Contract for constructing sewers in Districts 2 and 4, requiring about 2,790 ft. of 8-in. and 1,000 ft. of 10-in. tile, with seven manholes, was awarded on Jan. 3 to WILLIAMS & SAMPLE, 106 Essex Bldg., Kansas City, Mo. S. K. McCrary is City Engr.

LAWRENCE, KAN.—GRAEBER BROS., of Lawrence, have been awarded contract, at 55 cts. per ft., for the construction of 1,500 ft. of 8-in. pipe sewer, average depth, 8 to 9 ft.; installation of a flush tank, at $80; galvanized water pipe, at 22 cts. per ft. Bids were opened on Jan. 3.

*LINCOLN, NEB.—C. D. CAMPBELL, 1702 South Eleventh St., Lincoln, has been awarded contract, at $39,900, for the construction of a reinforced-concrete conduit for Antelope Creek, 10 x 20 x 9 ft., 780 ft. long. Bids were opened on Dec. 27.

KANSAS CITY, MO.—J. L. Darnell, City Engr., has completed plans for constructing the Brush Creek sewers from 51st and Mercer Sts. east to Brush Creek and Jackson Ave. Bids will be received by the Board of Public Works.

SEARCY, ARK.—See item under Light and Power Plants.

TULSA, OKLA.—H. C. GASS has been awarded contract for sanitary sewer work in sewer districts Nos 7, 8 and 43.

CHICKASHA, OKLA.—T. W. ROBERTS, of Chickasha, has been awarded contract, at $38,870, for the construction of the storm concrete sewer, single ring brick and vitrified pipe.

WEATHERFORD, OKLA.—Bids are asked until 2 p. m., Jan. 28, by W. K. Cunningham, City Clk., for the construction of a concrete septic tank of about 84,000 gallons capacity; two sand filter beds, 60 x 100 x 3 ft. 3 in.; 32,450 ft. of 6-in., 9,400 ft. of 8-in., 7,770 ft. of 10-in., 4,770 ft. of 12-in., 1,450 ft. of sewers of first quality pipe, together with manholes, lampholes and other appurtenances. J. L. O'Hearn, Clinton, Okla., is Consulting Engr.

*ELK CITY, OKLA.—See item under Streets and Roads.

OKLAHOMA CITY, OKLA.—The lowest bids opened on Jan. 5 by the Sewer Committee for the construction of sewers were: Walker Ave. storm sewer, F. R. Stone, at $26,811; Broadway storm sewer, J. W. Smith, at $27,169.

The lowest bidders for the construction of sanitary lateral sewers were: Jordan Pl., Oak Park, etc., McCreedie Co., at $15,762; Culbertson's East Highland district, J. O. Severns, at $22,000; Blocks 10, 11, 12, etc., University addition, J. O. Severns, at $4,900; Blocks 2, 7, 22, 27, etc., University addition, McCreedie Co., at $11,023; Putnam Heights and Military Park, J. O. Severns, at $17,010.

PORTLAND, ORE.—The City Council has adopted a resolution for the construction of a sewer system, to be known as the Stephens Slough sewer system in East Third St., Union Ave., Grand Ave., East Sixth St., East Seventh St., East Eighth and Ninth and Tenth Sts., to be constructed of vitrified sewer pipe. Estimated cost, $18,432. J. W. Morris, is City Engr.

SAN FRANCISCO, CAL.—No bids were received on Jan. 5 by the Board of Public Works for the construction of the Yerba Buena sewer, for which $600,000 of bond issue funds is available. Bids will be readvertised.

Contract for the construction of the sewer in Fulton St., from 20th to 45th Aves., was awarded to the METROPOLIS CONSTRUCTION CO., at $58,937. Marsden Manson is City Engr.

BAKERSFIELD, CAL.—SAM G. SMART has been awarded contract for constructing septic tank at Bakersfield, at $14,500.

OSHAWA, ONT.—The Provincial Board of Health has approved the plans of T. Aird Murray, of Toronto, for a sewage disposal plant. Nothing further has been done in the matter. Frank Chappell is Town Engr.

PRESCOTT, ONT.—The citizens on Jan. 3 voted to issue $5,000 of bonds for the extension of sewers.

WINNIPEG, MAN.—The cost of the proposed trunk sewer from Elmwood has been estimated at about $21,000. H. N. Ruttan is City Engr.; C. J. Brown is City Clk.

GARBAGE DISPOSAL.

JEFFERSONVILLE, IND.—We are officially advised that contract for sanitary carts has been awarded by Maj. Joseph T. Davidson, Q. M., U. S. A., Jeffersonville, to GEORGE A. HOLZBOY, of Jeffersonville, at $1,340, for five 4-wheel, 2-horse carts, and at $2,000 for ten 2-wheel, 1-horse carts.

ST. LOUIS, MO.—The Board of Public Improvements awarded for sprinkling streets as follows on Jan. 8: JOHN F. McMAHON, Wainwright Bldg., 16th District, $7,993; 17th, $6,521; 19th, $5,315; 20th, $6,487; 22d, $3,943; 23d, $2,909; 24th, $4,681; and 25th, $7,183. FRANK A. STIERS, 23d District, $3,585; 30th, $6,336, 23d, $4,940, and 34th, $6,199. G. EYERMANN & BRO., 1216 South Grand Ave., 15th District, $9,200.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

PROVIDENCE, R. I.—Bids will be received until 2 p. m., Jan. 24, by the Board of Contract and Supply for furnishing and delivering on the City Yard Dock, South Providence, 20,000 lin. ft. of straight granite curbing; 150 pieces circular curb, 10-ft. radius; 50 pieces 2-ft. curb corners; 500 lin. ft. 14-in., 1,000 lin. ft. 18-in. and 500 lin. ft. 24-in. cross-walk stone. W. C. Pelkey is Clerk; Henry Fletcher is Mayor and Chn.

HARTFORD, CONN.—Plans for proposed state road work for 21,200 lin. ft. on the Oxford Road in the town of Oxford have been received by J. H. MacDonald, State Highway Comr., from J. Frederick Jackson, Engr. The Board of Street Commissioners, George Nevers, Clerk, has voted for the paving of Farmington Ave., from Woodland St. to Prospect Ave., with tar macadam during the early part of 1910.

NEW YORK, N. Y.—The following bids were received by the President of the Boro. of Richmond on Jan. 11 for furnishing all the labor and materials required for regulating and repaving with bitulithic pavement laid under the patents of Warren Bros. Co., or asphalt blocks, on present macadam foundation the roadway of Fingerboard Road from a point 100 ft. west of Egbert Pl. to a point 230 ft. south of Cleveland Pl., together with all work incidental thereto: Rafferty Bros., 624 West 52d St., New York, $14,621; Standard Bitulithic Co., 253 Broadway, New York, $18,329; The Mangeri Co., $19,612; Hastings Paving Co., 25 Broad St., New York, $18,281; Atlantic Bitulithic Co., $20,268; John E. Donovan, $20,175; Cranford Co., 59 Ninth Ave., Brooklyn, $20,364; Sicilian Asphalt Paving Co., 41 Park Row, New York, $27,240; Barber Asphalt Paving Co., $18,847.

The following bids were received by the Commissioner of Public Charities on Jan. 14 for furnishing all the labor and materials required for macadam roadways, brick gutters, cement walks, curbs, etc., at Coney Island Hospital, Ocean Parkway, Boro. of Brooklyn: Frank J. Gallagher, 574 Park Pl., Brooklyn, $6,786; J. J. Guinan, Gravesend Ave., Brooklyn, $10,400; Dunbar Contracting Co., $6,800; James MacArthur, 22 Ormonde Pl., Brooklyn, $6,783.

NEW YORK, N. Y.—Bids were received on Jan. 18 as follows by the President of the Boro. of Manhattan for repairing and maintaining sheet asphalt pavement in the Boro. of Manhattan: Barber Asphalt Paving Co., 30 Church St., New York, $118,700; Uvalde Asphalt Co., 1 Broadway, New York, $128,973; Sicilian Asphalt Co., $184,100.

JERSEY CITY, N. J.—Bids will be received until Jan. 24 by the Board of Street and Water Commissioners for 5,090 sq. yds. of Belgian pavement on Broadway. George T. Bouton is Clk.

WILKES-BARRE, PA.—Bids will received by F. H. Gates, City Clk., until noon, Jan. 24, for furnishing material, grading, curbing and paving Hillside St., between Market and Northampton Sts., requiring 1,800 sq. yds. of vitrified brick pavement and 1,200 sq. yds. of Belgian block pavement.

PRINCESS ANNE, MD.—Bids are asked by the Commissioners of Somerset County until noon, Feb. 1, for improving the public highways between Pocomoke and Dividing Creek, known as the River Road. The work includes 1.02 miles of road to be graded and macadamized. L. N. Whitecraft is Roads Engr.

NORFOLK, VA.—Bids will be received until Feb. 8 by the Board of Control for regulating and repaving with smooth material parts of Granby and Chapel Sts. W. T. Brooke is City Engr.

PETERSBURG, VA.—See item under Sewerage.

SUMTER, S. C.—The contract for paving sidewalks on Main St. with about 4,000 sq. yds. of cement has been awarded to J. D. McGEE, of Greenville, at 89 cts. per sq. yd. W. L. Lee is City Engr.

FORT DADE (Egmont post-office), FLA.—Bids are asked by the Constructing Q. M., until 10 a. m., Jan. 26, for constructing granolithic walks at this post.

GLENDALE, OHIO.—Bids are asked until noon, Jan. 21, by the Board of County Commissioners for the following county work: Under Specification No. 994, for the improvement of Congress Ave., through the Village of Glendale, Springfield Township. Fred Dreihs is Clerk, Cincinnati, Ohio.

DUNLAP (Mount Healthy post-office), OHIO.—We are officially advised that bids were received by the Board of County Commissioners, at Cincinnati, on Jan. 7, for improving the Stone Mill Road, from Colerain Pike at Dunlap to the county line. Specification No. 986. Fred Dreihs is Clerk, Cincinnati, Ohio. The contract has been let to H. E. STEELE, of Cleveland, Ohio, at $7,369.

MARYSVILLE, OHIO.—Bids are asked until 1 p. m., Jan. 29, by the Commissioners of Union County for the construction of Lincoln and Cranston Roads in Union Township. Bert J. Shelton is County Audr.

IRONTON, OHIO.—The Board of Public Works has awarded the contract for paving with brick a portion of Fourth St. to the IRONTON CONSTRUCTION CO., of Ironton, at $12,859.

FREMONT, OHIO.—The County Commissioners are preparing to improve Harrison Road, at an estimated cost of $80,000.

MARION, OHIO.—The Board of County Commissioners is preparing to improve 14 miles of road with macadam.

COLUMBUS, OHIO.—The Director of Public Service of the city of Columbus has awarded the following contracts: To GIEGLE, GARNES & CO., to pave Center St. with Athens blocks, $9,176; to same firm to pave Graham St. with Athens block, $2,959; to LUTCHENBERG & CO., Columbus, to pave Glenwood Ave. with Trimble block, $32,472; to BUDD & BARTLING, Columbus, to pave Marion St. with Nelsonville block, $3,023; to GEIGLE, GARNES & CO., to pave Ninth St. with Nelsonville block, $5,352; to same firm, to pave Stauring St. with Nelsonville block, $4,335; to H. J. SHAW, Columbus Savings & Trust Bldg., Columbus, to pave Scioto St. with Athens block, $9,896; to same, to pave Wesley Ave. with Peebles block, $5,870.

CINCINNATI, OHIO.—Bids are asked by the Board of County Commissioners, until noon, Feb. 11, for the following county work: Under Specification No. 988, for improvement of Cook Ave., from M. & E. Canal bridge to Paddock Road, Millcreek Township. Fred Dreihs is Clerk.

MONTICELLO, IND.—Bids are asked by the Commissioners of White County until noon, Feb. 8, for the construction of the following stone roads: The Younger road on line between Big Creek and Prairie Townships; the Anderson road on the line between Big Creek and Prairie Townships, and the Moore Road on the line between Big Creek and Honey Creek townships. A. G. Fisher is County Audr.

KENDALLVILLE, IND.—FRED HOFFMAN, of Rochester, Ind., has secured a contract for paving certain streets in Kendallville, at $40,625.

LIGONIER, IND.—TRIPETT & SON, of Peru, Ind., have secured a contract for paving with Nelsonville block, at $13,220.

KENTLAND, IND.—Bids are asked by the Commissioners of Newton County, Kentland, until 2 p. m., Feb. 7, for constructing a macadam road. Elmer R. Bringham is County Audr.

EVANSVILLE, IND.—Bids are asked by the Board of Free Turnpike Directors of Vanderburg County, at Evansville, until 10 a. m., Jan. 27, for broken stone and gravel for repair of various turnpikes in the county. Harry Stinson is Secy.

ISHPEMING, MICH.—We are officially advised that bids were received by the Board of County Commissioners of the County of

Marquette at its office in Ishpeming, on Jan. 8, for the clearing, grubbing and grading of two miles of Witch Lake Road. The road begins on the north bank of the Michigamme River, thence northerly two miles toward Witch Lake. The clearing and grubbing will be for a width at any point equal to the cut or fill and gutters at that point. The grading will consist of approximately 6,906 cu. yds. of embankment and 6,724 yds. of earth excavation. Work is to be completed not later than July 15, 1910. W. H. Johnston is Chn. The contract has been awarded to G. FREDEEN, of Norway, Mich., at $4,240.

PLATTEVILLE, WIS.—W. G. Kirchoffer, of Madison, will prepare plans for paving Main St. with brick. P. D. Hendershot, Jr., is City Clk.

CRESTON, IOWA.—Bids will be received by the City Council until Jan. 25 for paving with 2½-in. asphaltic macadam, on a 4-in. concrete base, and constructing concrete curb on portions of North Walnut, East Mills, West Adams and three other streets. J. F. Golden is City Clk.; Theodore S. De Lay, City Engr.

ST. PAUL, MINN.—Bids are asked by the Commissioners of Ramsey County, until 10 a. m., Feb. 7, for improving Barlow Road. Edward G. Krahmer is County Audr. J. H. Armstrong is County Surv.

FORT LEAVENWORTH, KAN.—Bids were received on Jan. 8, by Capt. William D. Davis, Q. M., U. S. A., for grading about 84,000 cu. yds. earth at this post. Joyce Bros. & Bagwell and M. A. Wogan, both of Kansas City, Mo., were the lowest bidders.

WICHITA, KAN.—Bids are asked until 9 a. m., Jan. 24, by William Sence, City Clerk, for paving with asphalt on Waco Ave. Bert C. Wells is City Engr.

LINCOLN, NEB.—Bids will be received until 1 p. m., Jan. 29, by Roscoe C. Ozman, City Clk., for grading, curbing and paving 27th, C, A, N and 25th Sts., being in Paving District Nos. 55, 56, 66, 139 and 148, respectively, requiring in all about 13,883 sq. yds. of asphalt pavement, 2,482 sq. yds. brick pavement, 8,254 ft. concrete curb and gutter, 1,153 ft. concrete curb, etc. William Grant is City Engr.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements until Jan. 21 for paving with asphalt, brick, bitulithic and granite, seven miles of streets. Cost, $400,000. W. B. Dryden is Secy.

LITTLE ROCK, ARK.—M. D. L. COOK, of Little Rock, was awarded the contract for paving West Eighth St. Improvement District with macadam, with an asphalt binder, at a meeting of the Commissioners of that District held on Jan. 5. Mr. Cook's bid of $13,068 was the lowest received. The other bidders were S. G. Woodsmith, $13,970, and Joseph McCoppin, with $13,938. The district includes West Eighth St., from Pulaski to Battery Sts.; Pulaski St., from Seventh to Eighth Sts., and Wolfe St., from Seventh to Eighth Sts.

*ELK CITY, OKLA.—We are officially advised that bids were received on Jan. 10, by R. J. Carlile, City Clerk, for 20 blocks of vitrified block paving, including grading, storm sewer, curbing, buttering, etc. R. J. Lancaster, Wilson Bldg., Dallas, Tex., is Engr.; H. O. Hixon is Mayor. The contract has been let to the SOUTHWESTERN CONSTRUCTION CO., Muskogee, Okla., at $82,000.

GUTHRIE, OKLA.—The J. F. HILL PAVING CONSTRUCTION CO. has secured the contract for paving with sheet asphalt Washington St., at $1.94½ per sq. yd.

NORMAN, OKLA.—Bids are asked until 8 p. m., Jan. 25, for approximately 25,000 sq. yds. of rock asphalt and 10,000 sq. yds. of petrolithic pavement, together with storm sewers, curb, gutter, etc. A. E. Clement is City Clerk; R. D. Alexander, Engr.

SPOKANE, WASH.—Bids will be received by the Board of Public Works until Feb. 1 for furnishing and erecting a municipal asphalt paving plant of semi-portable combination type. George W. Armstrong is Secy.

TACOMA, WASH.—To continue the Sixth Ave. paving through to the Narrows will cost abutting property owners approximately $166,000, according to the estimate prepared by W. C. Raleigh, City Engr. The paved portion will have a roadway 48 ft. wide from Warner St. to Proctor St. From Proctor to Orchard St. the avenue is now graded with a roadway 50 ft. in width. From Orchard to the Narrows the paved portion will be 20 ft. wide, with wide parking strips on each side. The city will advertise for bids soon for the completion of this work.

OCEANSIDE, CAL.—The city of Oceanside will begin operations in the spring on the construction of a macadam boulevard to run from Hill St. to the city limits. Sufficient money is available from a recent bond issue. Plans and specifications for the work will be completed soon by the City Engineer.

PHOENIX, ARIZ.—We are officially advised that it is proposed to lay a 6-in. crushed rock oiled roadway, 16 ft. wide, on Central Ave. Cost, $31,500. Maj. E. M. Lamson is Secy. Special Road District No. 1. The road will be 6⅝ miles long. The contract has been let to A. W. GREGG, of Phoenix. McClure & Sherwood are Engrs.

TORONTO, ONT.—The proposed widening of St. Clair Ave. to a width of 100 ft., from Yonge to Bathurst Sts., was approved of by the Civic Committee on Works on Jan. 15. This approval was based on a recommendation by the Assessment Commissioner and C. H. Rust, City Engr., that the city should bear one-third of the cost of the improvement. The Committee regarded this with favor. The total cost was estimated by the officials at $170,000, and the city's proposed share of this would be $56,667.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—A plot of ground has just been sold to Irving D. Andrews & Son, of Littleton, N. H., upon which will be constructed a box factory for B. F. Andrews & Son. They are large lumber dealers who will establish their box factory in Portland. The firm employs about 100 men and its output is 300 cars a month. The firm will build a factory directly opposite the Crossman factory at Morrill's Corner. The firm will install a 300-HP. engine and modern machinery. It is expected that the construction of the building will begin as soon as the snow is off the ground and it will be ready for occupancy and the plant will be in operation by next autumn.

CHICOPEE FALLS, MASS.—The Directors of the Chicopee Mfg. Co., manufacturers of cotton goods, voted at a meeting in Boston on Dec. 28 to authorize an issue of capital stock to the amount of $100,000. The money will be devoted to building a weave shed at the plant at the corner of West Main and Main Sts. in Chicopee Falls during the present year. No design for the building has been accepted as yet, but it is stated that the shed will be one story high, and will be 240 ft. long and 150 ft. wide. It will be equipped with modern machinery. The new issue will bring the total value of the capital stock in the company up to $600,000.

STOUGHTON, MASS.—The Campbell & Harris Knitting Co. has filed certificate of incorporation in Hartford, Conn. The concern will manufacture hosiery, knit goods and stockinets. The offices will be located in Hartford and the company's plant will be situated at Stoughton. The incorporators are Gilbert Harris, of Stoughton, and J. J. Campbell and Cora I. Chaffi, of Hartford, and the capital stock is $20,000.

WOONSOCKET, R. I.—We are officially advised that Charles T. Main, Mill Engr. and Archt., 45 Milk St., Boston, Mass., is working upon plans for a new worsted spinning plant for the Samoset Worsted Co., Woonsocket, R. I. The main building will be 115 ft. wide by 157 ft. long, consisting of three stories and basement, with office building attached. The walls will be of brick and the floor beams of steel. The Bradford system of spinning will be employed.

BUFFALO, N. Y.—The Superior Motor Vehicle Co., recently incorporated, will build a 2-story factory, 70x300 ft., of brick and steel construction with power-house on Elmwood Ave. and the New York Central R. R. Belt Line. Plans are being prepared by the company's engineer. J. Willar Lansing is Pres., 150 Michigan St., Buffalo.

NIAGARA FALLS, N. Y.—The Storage Battery & Lighting Co., 9 Jackson Boulevard, of Chicago, Ill., has purchased land from the Citizens Lumber Co. and will build and equip a plant in the spring. Small buildings now on the property will be remodeled and equipped for temporary use until the new plant is completed.

HARRISON, N. J.—Plans have been filed with Daniel F. Maher, of Harrison, Bldg. Inspector, by the International Steam Pump Co., of Harrison, for two additions to the molding department and another to the carpenter department of the firm to cost $47,000. Work will be begun in a few days.

PHILADELPHIA, PA.—The WILLIAM STEEL & SONS CO., 1600 Arch St., has been granted a permit to build a $260,000 reinforced-concrete and brick factory building at the northwest corner of Lehigh Ave. and 22d St. for the Lehigh Mfg. Co. It will be an extension to the present plant of the company, which it adjoins. The building will measure 78 × 444 ft. and will be seven stories high.

CHARLOTTE, N. C.—Press reports state that 26 concerns for the manufacture of cotton goods and hosiery were chartered in North Carolina during the last half of 1909. Five of these were knitting mills and two or three were reorganized companies, while two others will not engage in the manufacture of cotton for some time, leaving a total of 16 regular cotton mills for the six months. The increase in the amount of capital invested during the year was $51,000,000, slightly less than one-half of which is represented by the mills chartered during the last six months. Following are the 26 concerns chartered: Peck Mfg. Co., Warrenton, capital, $500,000; Icemorelee Cotton Mills Co., Monroe, increased capital from $150,000 to $300,000 to build new mill; Corriher Mill Co., Landis, capital, $100,000; Bertie Cotton Oil Co., Aulander, capital, $100,000; Saxony Spinning Co., Rutherfordton, capital, $200,000; L. Banks Holt Mfg. Co., Burlington, capital, $100,000; Akron Mfg. Co., Bessemer City, capital, $150,000; Holt, Gant, Holt Cotton Mfg. Co., Altamahaw, capital, $150,000; Entwistle Mfg. Co., Rockingham, capital, $500,000; Mecklenburg Cotton Holding Co., Charlotte, capital, $10,000; A. A. Shuford Mill Co., Hickory, capital, $125,000; Piedmont Mills Co., capital, $125,000; Aden Mfg. Co., Greensboro, capital, $50,000; Bellwill Cotton Mills, Wilmington, capital, $150,000; Vass Cotton Mill Co., Vass, capital, $250,000; River Falls Cotton Mills Co., Graham, capital, $250,000; American Cotton Mills Co., Thomasville, capital, $500,000; Cotton Mfg. & Sales Co., Salisbury, capital, $110,000; Murbola Cotton Mills Co., Burlington, capital, $100,000; Cleghorn Mills Co., Rutherfordton, capital, $200,000; Jennings Cotton Mills, Inc., Lumberton, capital, $500,000 Dixie Knitting Mills Co., Forest City, capital, $300,000; Durham Hosiery Mills No. 5, Durham, capital, $500,000; Runnymede Mills No. 3, knitting, Wilson, capital, $62,500; Graham Hosiery Mills Co., Graham, capital, $25,000; Peerless Hosiery Co., Tyron, capital, $100,000.

The above charters do not include a considerable number of companies in the state which have built additions and added new equipment and a number of changes in charters and increases in capital stock of old mills.

NORTHWILKESBORO, N. C.—The Finwin Cotton Mill of Northwilkesboro, N. C., will be organized soon, in accordance with its charter, recently granted to T. B. Finley, of Northwilkesboro, and J. Locke Erwin, of Concord, N. C. This company is capitalized at $200,000 and plans the construction and equipment of a plant.

RUTHERFORDTON, N. C.—The Cleghorn Mills Co., of Rutherfordton, will build an addition to the present plant. It will erect a building 40 × 75 ft. and install several thousand spindles with accompanying cotton yarn machinery. This company was formed recently to take over the Levi Cotton Mills, a plant of 6,500 spindles. It will expend a considerable amount to enlarge and modernize the plant.

EASLEY, S. C.—The Alice Milling Co., Easley, S. C., has been formally organized, the directors being W. M. Hagood, W. C. Smith, Lewis W. Parker, W. C. Cleveland, J. E. Sirrine, James D. Hammond, E. P. Smith, S. Baldwin, Jr., J. McD. Bruce and E. P. Smith. They are all interested in Southern cotton mills, and Joseph E. Sirrine, of Greenville, S. C., is Arch.-Engr., who will plan, build and equip the Alice plant. E. H. Shanklin has been elected Pres. and Treas. with W. M. Hagood, Vice-Pres. and Roy R. Smith, Secy. This company was incorporated for the purpose of building a mill of 10,000 spindles and 300 looms to manufacture cotton cloth. Its capital stock is $250,000.

COLUMBIA, S. C.—The Glencoe Cotton Mill, of Columbia, S. C., has effected permanent organization, the officers elected being as follows: Pres. and Treas., T. H. Wanamaker, Sr., of Orangeburg, S. C.; Vice-Pres., G. M. Berry, of Columbia, S. C.; Secy., T. H. Wanamaker, Jr., of Orangeburg. These officers have engaged Shand & Lafaye, of Columbia, S. C., as the Archs.-Engrs., to plan, build and equip the plant, which will have about 5,000 spindles and accompanying equipment. The output will be warp and twine, about 7,000 lbs. each week. Electricity will be used for power. About 225 HP. will be transmitted through the plant. Building, machinery and other contracts are expected to be signed by Feb. 10. The Glencoe Cotton Mill has a capital stock of $100,000. Noted on Jan. 6.

TAMPA, FLA.—Bigelow & Spring, Tampa, Fla., intend making additions to their machine shop and will install a brass foundry and later probably build dry dock and shipyard.

NASHVILLE, TENN.—The management of the Enterprise Soap Works contemplate the erection of a factory building costing $100,000.

*LOUISVILLE, KY.—See item under Buildings.

CINCINNATI, OHIO.—The Toledo Electric Welder Co., of Cincinnati, has filed articles of incorporation with the Secretary of State with a capitalization of $75,000. The concern will built a plant in Cincinnati which will employ about 200 men and will manufacture electric welding and generating machinery. The incorporators are C. B. Dewitt, M. H. Heatley, C. V. Baumgardner, S. B. Ransom and A. J. Scheuler, all of Sandusky, Ohio.

SALEM, OHIO.—It is stated that the Deming Co. will erect an additional plant for manufacturing hydraulic rams.

DAYTON, OHIO.—The People's Ry. Co. has awarded contract for the construction of the new car barn on Bolender Ave. to the HALL-CRONAN CONSTRUCTION CO., of this city.

The site formerly occupied by the Dayton Hydraulic Machinery Co. has been acquired by the Dayton Computing Scales Co., which will put up a manufacturing plant equipped with electric drive and modern apparatus for fire protection.

FINDLAY, OHIO.—An addition to the plant of the Buckeye Traction Ditcher Co., Findlay, Ohio, will be erected within the next few months. Electrically-driven machinery will be installed.

AKRON, OHIO.—Plans, which the Taplin-Rice-Clerkin Co. has had under contemplation to erect a plant, will be carried out this year. The company held its annual meeting on Jan. 11, and it was announced that new buildings costing approximately $50,000 will be constructed on Broadway, where the present plant is. Officers were elected as follows: Pres. and Gen. Mgr., William Clerkin; Vice-Pres., C. B. Raymond; Secy., J. H. Miller; Treas., E. L. Crow. Messrs. Clerkin, Raymond, Crow, Francis Seiberling, H. A. Hine, Charles Fisher, and W. C. Hall constitute the directors.

GARY, IND.—The contract for the erection of all the steel frame buildings for the sheet and tin plate plant of the American Sheet & Tin Plate Co., to be erected at Gary, has been let to the AMERICAN BRIDGE CO., 30 Church St., New York. The buildings will house 100 sheet mills, 100 tin plate mills, office, tinning house, open-hearth department, and an expensive galvanizing department.

GAS CITY, IND.—William Moore announces that bids will be in order soon for the erection of a 3-story brick factory building.

WABASH, IND.—The Wabash Exchange announces that bids will soon be asked for the erection of a large automobile factory in this city.

GREENFIELD, IND.—The factory of the National Adjustable Chair Co., Greenfield, Ind., recently destroyed by fire, will be rebuilt on a larger scale.

KALAMAZOO, MICH.—The Michigan Buggy Co., Kalamazoo, Mich., will build a 3-story and basement factory, 60 × 300 ft., of concrete block construction.

PEORIA, ILL.—The Avery Co. advises us that it is expected to have plans and specifications for the proposed additions to its plant, complete within a few days. Cost, $200,000. Fully noted on Dec. 30.

ST. PAUL, MINN.—Schwarzchild & Sulzberger, packers, 217 La Salle St., Chicago, Ill., are taking bids for the general construction of a pressed brick and cut stone distribution, pickling and canning plant to be built here at Pine and Sixth Sts. It will be two stories high and fireproof. Cost, $35,000.

MINNEAPOLIS, MINN.—The Keller Mfg. Co., of Sauk Center, Minn., contemplates erecting a factory at Monroe and Jackson Sts., Minneapolis, to cost $75,000.

PITTSBURG, KAN.—Pittsburg Vitrified Paving & Building Brick Co. will rebuild the brick plant here recently destroyed by fire. Cost, $50,000. Architect and engineer are not yet selected. Robert Nash, Sr., is Pres., Postal Bldg., Kansas City, Mo.; Robert Nash, Jr., is Mgr., Pittsburg, Kan.

CHAMBERLAIN, S. DAK.—The Osborn Engineering Co., Osborn Bldg., Cleveland, Ohio, will start plans soon for a 1 and 2-story steel or corrugated iron cement plant, to be erected by the Dakota Portland Cement Co., care of D. B. Zimmer, Sioux Falls, S. Dak. Cost, $500,000.

ST. LOUIS, MO.—Charles Wissmath & Sons, pork packers, 1111 North Twelfth St., will erect upon 11½ acres, recently bought at Union Ave. and Bircher Road, a pork-packing plant. The ground purchased fronts 1,000 ft. on Union Ave., 1,000 ft. on Calvary Ave., and 515 ft. on Bircher Road. It is located at the southeast corner of Bircher Road and Union Ave.

FREDERICK, OKLA.—J. W. Blackwelder, of Hickory, N. C., has organized the Frederick Knitting Mills to build a plant to be located at Frederick, Okla. The equipment of machinery contemplated is for an annual output of 1,800,000 pairs of whole and half hose. The town of Frederick gave a bonus of $35,000 and a tract of land for a site. Probably $100,000 will be the cost of the mill building and machinery.

BARTLESVILLE, OKLA.—Southwest Terra Cotta Co., Finance Bldg., Kansas City, Mo., incorporated with a capital stock of $150,000, will erect three buildings here to manufacture architectural terra cotta. Cost, $50,000. Fred. Slater is Vice-Pres.; A. F. Brooker, Secy., and S. J. Smallwood, Treas.

SPOKANE, WASH.—See item under Streets and Roads.

SAN PEDRO, CAL.—The Golden State Laundry, of San Pedro, Cal., will erect a brick laundry building on Fifth St. Estimated cost $10,000

LOS ANGELES, CAL.—Press reports state that a contract to construct three ice manufacturing plants, one each at Bakersfield, Fresno and Stockton, for about $300,000, has been awarded to WILLIAM KELLER, Los Angeles, by the Southern Pacific Co. and the Atchison, Topeka & Santa Fe Ry. Co. Daily capacities of the plants will be: Bakersfield, 50 tons; Fresno, 100; Stockton, 75. Mr. Keller will transfer his contract to a company which will be organized in Los Angeles, and in which he and Daniel Murphy, Los Angeles, and Joseph Martin, Pres. of the National Ice Co., 268 Market St., San Francisco, will be interested.

Three additions will be made to the factory of the Planet Paint Co., Los Angeles. They will be 30 × 75 ft., 40 × 50 ft. and 34 × 75 ft., all one story, on concrete foundations, with cement floors. Another similar addition, 50 × 140 ft., will be erected by the company in two months.

F. M. Tyler, Arch., Union Trust Bldg., Los Angeles, has prepared plans for two brick factory buildings, one story each, for the Talbert, Whitmore Co., window shade manufacturers, on Lacey St. There will be a point house, 35 × 50 ft., and a cutting room, 30 × 50 ft.

FALLON, NEV.—The Nevada Beet Sugar Co. will erect a factory building at Fallon, with a capacity of 500 tons a day. W. W. Williams is Pres., and among the directors are M. D. Fairchild and F. Strasburg, Jr.

The Comstock Ranching Co., of Reno, Nev., will establish a dairy farm, creamery, ice plant and cold storage plant at Fallon. Geo. Wingfield, of Goldfield, Nev., is among the directors.

EDMONTON, ALTA.—The Edmonton Radial Ry. System will erect a fireproof car house in Edmonton to be 250 × 80 ft. The structure will accommodate 50 cars, and will contain six tracks. A machine shop and offices will also be provided for in the building. Charles E. Taylor is Gen. Mgr.

MISCELLANEOUS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

TUNNEL WIDENING.—Caanan, N. Y.—Contract for widening the Boston & Albany R. R. tunnel at Caanan, N. Y., has been awarded to JOHN DONOHUE, of Springfield, Mass.

DREDGING.—Columbus, Ohio.—The State Board of Public Works has awarded the contract for dredging the Ohio Canal to EDWARD BODETTE, of Toledo, for 103,000 cu. yds. at 14 cts. a cu. yd.

FIRE ENGINE.—Meriden, Conn.—The Fire Commissioners have voted to buy a combination gasolene fire engine. The engine must be rated at 75 HP., and be capable of pumping 700 gallons a minute.

WHARF.—Fort Mansfield, R. I.—The T. A. SCOTT CO., of New London, Conn., has been awarded the contract for constructing a wharf at Fort Mansfield, R. I., at $3,350. The wharf was washed away in November.

IRON FENCE, GATE HOUSE.—Santa Monica, Cal.—J. L. DAVIDSON, Mason Bldg., Los Angeles, Cal., has contract for constructing iron fence and gate house at Soldiers' Home, Santa Monica, Cal., at $12,000.

DRAINAGE.—Hampton, Iowa.—The Board of Supervisors of Franklin County will receive bids Jan. 21, for work of construction in Drainage District No. 6, to consist of excavaiton of about 373,000 cu. yds. of dirt, all open work. F. G. Luke, County Audr.

FILLING IN.—Galveston, Tex.—John D. Kelley, City Secy., states that the North American Dredging Co., of Galveston, submitted a bid on Jan. 3, for filling in behind Galveston County sea wall (about 1,179,000 cu. yds. of sand), at 20 cts. per cu. yd.

WHARF, JETTY.—Acme, Ore.—Contract for furnishing materials and constructing receiving wharf and jetty at the entrance to Siuslaw River, Oregon, has been awarded to ROBERT WAKEFIELD, Portland, Ore., at $117,000. W. G. Carroll is Port Engr., Acme, Ore.

CEMENT.—Los Angeles, Cal.—Bids were received on Dec. 24 by Horace B. Ferris, Secy. Board of Public Works, for furnishing 100,000 bbls. Portland cement, as noted last week. Contract has been awarded to the RIVERSIDE PORTLAND CEMENT CO., Kerckhoff Bldg., Los Angeles, at $1.45 per bbl.

DRAINAGE.—East St. Louis, Ill.—The East St. Louis Engineering Co., Arcade Bldg., is preparing plans for a drainage system for the Canteen Drainage District, it is announced, to cost about $20,000. Contracts probably will be let the latter part of next month. Kent Kurner is Attorney, Pierce Bldg., St. Louis, Mo.

PIER.—Long Beach (L. I.), N. Y.—The contract for the substructure of the pier to be erected by the Paul J. Rainey Pier Co. has been let to the GABRIEL BROS. CONSTRUCTION CO., 135 Broadway, New York. The pier will be 414 ft. long and upon it will be built a pavilion for which John Russell Pope, 527 Fifth Ave., New York, Arch., prepared the plans.

WIDENING DITCH, ETC.—Lima, Ohio.—Bids were received on Jan. 8 by J. F. Cupp, County Surv., for cleaning out and widening a ditch in Richland Township. This is all team work, except almost 12,000 ft. of tile from 6 to 8 ins. The work will be let in sections of about 2,000 ft. Contracts were let to ED. FITZGERALD and JOHN FENNESSEY, of Lima. Estimated cost, $5,000.

DITCH.—Tampico, Ill.—Bids will be received until Jan. 29 by the Drainage Commissioners of Drainage Dist. No. 2 (F. Barenthin, Comr., Tampico, R. F. D. No. 1), for extending and improving the main outlet ditch and the 2-branch or lateral ditches in Drainage Dist. No. 2, Town of Fairfield, County of Bureau, requiring the removal of 117,042 cu. yds. material. F. W. Sears, Engr., Prophetstown, Ill.

TILE DRAINS.—Des Moines, Iowa.—Bids will be received until Jan. 31 by H. B. Frase, County Audr., for constructing a tile drain in Drainage Dist. No. 8, Clay Township, requiring the laying of about 10,535 ft. of from 10 to 20-in. tile.

Bids will be received until Feb. 2 by H. B. Frase, County Audr., for constructing a tile drain in Drainage Dist. No. 10, Clay Township, requiring laying of about 10,500 ft. of from 8 to 18-in. tile.

CEMENT.—Ottawa, Ont.—Bids will be received by the Department of Railways and Canals, Ottawa, until 4 p. m., Jan. 28, for the supply of 140,000 bbls. of cement, more or less, required for the construction and maintenance of the various canals of the Dominion, and to be delivered in such quantities, at such places and at such times as may be directed. Dealers in cement may bid for the total quantity required, or for such portions thereof as may suit their convenience. L. K. Jones, Secy.

*EMBANKMENT.—Greenville, Miss.—Bids were received at the office of the Board of Mississippi Levee Commissioners, Greenville, on Jan. 10, for the construction of about 230,000 cu. yds. of embankment in the Mississippi Levee District. C. H. West is Ch. Engr. Contract for 90,000 cu. yds. (between Sledge and Concordia) was awarded to DULANEY, FOOTE & SHIELDS, of Greenville, at 16.9 cts. per cu. yd. Contract for 140,000 cu. yds. (between Concordia and Gunnison) was let to GEO. MILLER, Longwood, Miss., at 25 cts. per cu. yd.

ATHLETIC FIELD, ETC.—Baltimore, Md.—Bids will be received until 11 a. m., Jan. 26, by the Board of Awards on the following: A—Construction of Athletic Field in Carroll Park, including running track and paths, wading-pool, iron fencing, underground electric lighting system and other necessary work in connection therewith. B—Regarding construction of catch-basins, pipe lines, construction of armored concrete and granite curbs, construction of retaining wall, electric lighting system, and resurfacing of roads in Druid Hill Park at inner Mount Royal approach. C—Furnishing and delivering cast-iron electric light posts and bench legs for the Park Board. Wm. S. Manning, Gen. Supt., Bd. Park Comrs.

MARINE RAILWAY.—Key West, Fla.—Bids were received as follows on Jan. 15, by the Bureau of Yards and Docks, Navy Dept., Washington, for the construction of a marine railway, 648½ ft. long, with main and auxiliary cradles, chain and engine complete, for the Naval Station at Key West, Fla.: New Jersey Foundry & Machine Co., 90 West St., New York, $34,937; deduct $2,900 for omission of auxiliary cradle and 78 ft. of light construction track; $50 to be deducted for each pile bent or omitted in construction. H. I. Crandall & Son Co., 102 Border St., East Boston, Mass., on bidder's specifications, $37,720; $34,820; $33,630; $31,080; $39,000; $33,500; $2,800 to be added if capacity of ways be increased to 900 tons; $60 for piles.

*FLOATING DOCK.—Vicksburg, Miss.—Bids were received by Capt. Chalrke S. Smith, Corps Engrs., U. S. A., on Jan. 5, for the construction and delivery of a steel floating dock. Bids were as follows: (A) Dock as per specifications 25-55; (B) alternative design, as per specifications 56-82; (C) additional alternative design, as per bidder's plans (specification 83): American Bridge Co., 30 Church St., New York, and Frick Bldg., Pittsburg, (A) $45,000; (B) $45,000; (C) $43,000 and $39,000. The Springfield Boiler & Mfg. Co., Springfield, Ill., (A) $40,000; (B) $42,250. The Johnson Iron Works, Ltd., 1412 Duffosort St., New Orleans, La., (A) $47,500; (B) $51,950. C. Trimborn, care Milwaukee Bridge Co., 1400 34th St., Milwaukee, Wis., (A) $42,185; (B) $42,330. The Des Moines Bridge & Iron Co., Des Moines, Iowa, (A) $44,900.

BARGE CANAL.—Albany, N. Y.—The following additional contracts for Barge Canal construction work have been approved by the Canal Board, and it is expected that bids will be asked on the work shortly: Contract No. 21, providing for the excavation of the canal prism and constructing guard lock, highway bridge abutments and all appertaining work between the Genesee River and the east end of Contract No. 6, Monroe County; Contract No. 39, calling for dredging a channel in the Oswego River and performing work incidental thereto, between Three Rivers and Fulton, a distance of about eleven miles; Contract No. 50, for constructing a reservoir and dam on the West Canada Creek, and performing all other work appertaining to the contract, area of the reservoir inside the clearing line being about six square miles; Contract No. 49, for constructing the canal from about 500 feet east of Yellow Mills bridge to the Wayne-Monroe County line, a distance of about six miles; Contract No. 73, for dredging a channel in the Hudson River and performing work incidental thereto from Northumberland to Still water, a distance of 15 miles; Contract No. 75, for constructing guard superstructures as follows: at a point about 1.3 miles east of Spencerport; at a point near west line of Brockport; and at a point 1.5 miles east of Middleport; and Contract No. 78, for the construction of a dike along the Oswego River near Fulton, a distance of 1.23 miles. F. C. Stevens is Supt. Public Works.

U. S. POSSESSIONS.

CRANES.—Panama.—Bids were received as follows on Jan. 17 by the General Purchasing Officer, Isthmian Canal Commission, Washington, for furnishing two wrecking and coaling cranes, self-propelling, with a capacity of twenty-five tons at twenty feet radius, with outriggers: Browning Engineering Co., Cleveland, Ohio, $18,000, deduct $600 if ballast be furnished by Commission; shipment, 35 days. Brown Hoisting Machinery Co., Cleveland, Ohio, $22,360; 150 days. Industrial Works, Bay City, Mich., $18,600; $644 for ballast; 70 days shipment.

DUMP CARS.—Panama.—Bids were received as follows on Jan. 4, by the Isthmian Canal Commission, Washington, for furnishing 250 all-metal air-operated dump cars of approximately 10 cu. yds. capacity. The cars are to be constructed for track of 5-ft. gage, maximum curvature, 20 degrees. Length of body, 24 ft., width, 9 ft.; height, 2 ft. 4 ins.; height above rail, 7 ft. 8 ins.; wheel base, 22 ft. 9 ins.; truck base, 5 ft. 4 ins.; clear opening between door and car body when dumped, not less than 4 ft. 8 ins.: W. J. Oliver Mfg. Co., Knoxville, Tenn., $358,500; alternative bids, $15 and $35 additional per car; 50 cars in 90 days, and 50 in 120 days; 50 in 135 days; 50 in 150 days; 50 in 165 days. Western Wheeled Scraper Co., Aurora, Ill., $483,750, 50 cars in 120 days; 50 in 150 days; 50 in 180 days; 50 in 210 days; 50 in 240 days. Cars to be delivered at Colon; time is an important element of the contract.

EXAMINATIONS.

RODMAN.—New York, N. Y.—The Municipal Civil Service Commission will receive applications until 4 p. m., Jan. 24, for the position of rodman. The examination will be held on Feb. 21, at 10 a. m. The salaries of this position range from $900 to $1,200. Vacancies, none at present time. Minimum age, 18 years. Application blanks may be obtained at 299 Broadway, Room 1119. F. A. Spencer, Secy.

TRANSITMAN.—New York, N. Y.—Applications will be received by the Municipal Civil Service Commission, 299 Broadway, until Jan. 26, 4 p. m., for the position of transitman. The examination will be held on Feb. 28, at 10 a. m. Vacancies, none at present. Salaries range from $1,200 to $2,100 per year. Minimum age, 21 years. Application blanks can be obtained at 299 Broadway, room 1119. F. A. Spencer, Secy.

COMPUTER.—Philippines.—The U. S. Civil Service Commission announces an examination on Feb. 16-17, to secure eligibles from which to make certification to fill a vacancy in the position of Computer, $1,600 a year, in the Coast and Geodetic Survey, for duty at Manila, Philippine Islands, and vacancies requiring similar qualifications as they may occur in the Coast and Geodetic Survey, unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer, or promotion. Application form 1312.

HYDRAULIC ENGINEER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 16-17, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Hydraulic Engineer in the Water Resources Branch of the Geological Survey. The salaries range from $1,200 or less to $2,400 a year, and will be determined chiefly by the character of the training and experience of the eligibles. Age limit, 20 years. Application form 1312. Application must be filed prior to closing hour on Feb. 5.

TOPOGRAPHIC AID.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 16, to secure eligibles for temporary employement as Topographic Aid under the Geological Survey during the field season. The entrance salary ranges from $40 to $75 a month. Appointment to permanent position will be made only of persons who qualify in and are certified from the Junior Topographer examination. An examination for Junior Topographer will be held on Feb. 2-3. An applicant who desires to be examined for both positions must file a separate application for each position. Age limit, 20 to 40 years. Application form 1312.

JUNIOR TOPOGRAPHER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 2-3, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Junior Topographer in the Geological Survey, at salaries ranging from $720 to $1,200 a year. Appointment to permament positions in the Geological Survey will be made from the register of Junior Topographer eligibles. An examination will be held on Feb. 16, to secure eligibles qualified as Topographic Aid, for temporary employment only, during the field season. An applicant who desires to be examined for both positions must file a separate application for each position. Age limit, 20 to 30 years. Application form 1312.

ASSISTANT ASSAYER.—Kansas City, Mo.—The U. S. Civil Service Commission announces an examination on Feb. 2, to secure eligibles from which to make certification to fill a vacancy in the position of Assistant Assayer, $1,200 a year, in the Custom-House Service at the port of Kansas City, Mo., and vacancies requiring similar qualifications as they may occur in that service throughout the United States, unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer, or promotion. Candidates for appointment in the Custom-House Service must be not less than 21 nor more than 55 years of age, of suitable physical condition, and mentally qualified. If otherwise duly qualified, the limitation as to age will not apply to honorably discharged United States soldiers or sailors. Application form 1312.

ASSISTANT GEOLOGIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 16-17, to secure eligibles from which to make certification to fill vacancies as they may occur in the positions of Assistant Geologist and Junior Geologist in the Geological Survey, at salaries ranging from $1,000 to $1,600 a year. The salaries paid will depend upon the experience and qualifications of the eligibles secured. In certain cases where only a portion of the time of the appointee can be given to the work of the Department, the compensation will be upon a per day basis for the service rendered. Employment in the position of temporary Field Assistant will also be made from the resulting eligible list as far as possible. The compensation of such positions ranges from $60 to $100 a month, and the length of employment from three to seven months. The eligibility of persons now on the Assistant Geologist register has been extended for one year from June 7, 1910; such persons need not take this examination unless they desire to attempt to increase their averages or to qualify in some other subject or subjects of geology. Should they desire to take the examination for the purose name, it will be necessary for them to file a properly executed application. Age limit, 20 years. Application form 1312.

INDUSTRIAL NOTES.

F. C. FINKLE, Consulting Engineer, announces the removal of his office from 230 I. W. Hellman Bldg., to 628½ South Spring St., Los Angeles, Cal.

MR. C. DRUCKLIEB, 132 Reade St., New York, manufacturer of the Injector Sand Blast Apparatus, announces his removal to 178 Washington St., New York.

BUFF & BUFF MFG. CO., Jamaica Plain, Boston, Mass., manufacturers of Surveying Instruments, announce the opening of a branch office at 50 Church St., Hudson Terminal Building, New York City.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

2- 2*Conduit, Chicago, Ill. 1- 6
2- 5*Insul. cable, New London, Conn. 1-13
2-15*Equipment, Winnipeg, Man. 12-30

Bridges.

1-21*Bridges, Jacksonville, Fla. 1- 6
1-22 Bridge, Outlook, Sask. 1-13
1-24*Bridge, Monroeville, Ohio. 12-30
1-25 Bridge, Whiterocks, Utah. 1-13
1-25 Bridge, Greenville, S. C. 1-20
1-28 Bridge work, Columbus, Ohio. 1-13
1-31 Bridge, Minneapolis, Minn. 1-20
2- 1 Bridge, Westbrook, Conn. 1-20
2- 5 Bridge work, Cleveland, Ohio. 1-20
2- 8 Bridge work, Oak Harbor, Ohio. 1-20
2- 8 Bridge, Bristol, Va. 1-20
2- 9 Bridge bonds, Dayton, Ohio. 1-20

Buildings.

1-26*Building, Ft. Monroe, Va. 12-30
1-26*Cottages, Kings Park, N. Y. 1- 6
1-27 Stable, Vancouver, Wash. 1- 6
1-27 Plumbing, New York. 1-20
1-31*Post-office, Goldsboro, N. C. 12-30
1-31 Barracks, Philadelphia, Pa. 1-13
1-31 Jail, Puente, Cal. 1-13
2- 1 Cottages, Storrs, Conn. 1-13
2- 1 Plans, New Westminster, B. C. 1-13
2- 1 Church, Norwood, Ohio. 1-13
2- 7*Bell tower, Red Bank, N. J. 1-20
2- 7 Quarters, Hot Springs, Ark. 1-13
2- 7 Prison, Stillwater, Minn. 12-30
2-10*Post-office, Lynchburg, Va. 12-23
2-14 Post-office, Lead, S. Dak. 12-23
2-15 Post-office, Emporia, Kan. 1-13
2-16 Refrig. mach., Ft. Bayard, N. Mex. ..... (Mfg. Pl.) 1- 6
2-17*Post-office, Denver, Colo. 1- 6
2-18*Post-office, Henderson, N. C. 1-20
2-18*Laundry, etc., Louisville, Ky. 1-20
2-19 Quarters, Bremerton, Wash. 1-13
2-21*Post-office, Pawtucket, R. I. 1-20
2-24 Post-office, Rock Island, Ill. 12-30
3- 1 Post-office, Hot Springs, Ark. 1- 6
3- 2 Post-office, Meridian, Miss. 1-20

Water-Works.

1-22*Wells, etc., Jackson, Miss. 12-16
1-21 Pumping station, etc., Ft. Mason, Cal. 1- 6
1-22 Cementing canal, Nampa, Idaho. 1-20
1-24 Pump, Redondo, Cal. 1-20
1-25*Siphon, New York. 1- 6
1-25*Water-works, Bloomington, Ill. 1-13
1-26 Water-works, Porteles, N. Mex. 1-13
1-28 Standpipe, etc., Weatherford, Okla. 1-13
1-28 Valves, etc., Minneapolis, Minn. 1-13
1-31 Filter plant, Tacoma Park, D. C. 1-20
2- 1 Main, Waterbury, Conn. 1-20
2- 1 Sed. basins, etc., Ardmore, Okla. 1- 6
2- 2 Pumping sta., Burlington, Ia. 1-20
2- 2 Dam, etc., Dallas, Tex. 1-13
2-15 Water-works, Midland, Tex. 1- 6

Sewers.

1-21 Sewer, Watertown, N. Y. 1-20
1-24 Sewer, New York. 1-20
1-24 Sewers, Provo City, Utah. 1-13
1-24 Sewer system, Santa Clara, Cal. 1-13
1-24*Sewers, Walters, Okla. 1-13
1-24*Pipe sewers, Charleston, S. C. 1-13
1-26 Sewers, Boone, Iowa. 1- 6
1-26 Sewer, Anniston, Ala. 1-20
1-26 Sewers, Brooklyn, N. Y. 1-20
1-27 Sewer, Fort Wayne, Ind. 1-20
1-28 Sewers, Weatherford, Okla. 1-20
1-28 Sewer system, Traer, Iowa. 1-20
2- 1 Sed. basins, Ardmore, Okla. 1- 6
2- 2 Conduit, Chicago, Ill. 1-13
2- 3*Sewage pump station, El Paso, Tex. 1-13
2- 7 Sewers, Louisville, Ohio. 1-20
2- 9*Sewers, Baltimore, Md. 1-13
2-15*Sewer outlet, etc., Toronto, Ont. 12-23
2-16*Sewer system, Lawton, Okla. 12-30

Streets and Roads.

1-21 Paving, St. Louis, Mo. 1-20
1-21 Street impvt., Glendale, Ohio. 1-20
1-24 Paving, Wilkes-Barre, Pa. 1-20
1-24 Paving, Jersey City, N. J. 1-20
1-24 Curbing, etc., Providence, R. I. 1-20
1-25 Macadam, Creston, Iowa. 1-20
1-25 Paving, etc., Norman, Okla. 1-30
1-25 Roads, Anderson, Ind. 1-13
1-26 Walks, Ft. Dade, Fla. 1-20
1-27 Stone, etc., Evansville, Ind. 1-20
1-29 Paving, Lincoln, Neb. 1-20
1-29 Roads, Marysville, Ohio. 1-20
1-29 Paving, Charleston, S. C. 1-13
2- 1 Asphalt plant, Spokane, Wash. 1-20
2- 1 Road, Princess Anne, Md. 1-20
2- 7 Road, St. Paul, Minn. 1-20
2- 7 Macadam, Kentland, Ind. 1-20
2- 8 Paving, etc., Norfolk, Va. 1-20
2- 8 Roads, Monticello, Ind. 1-20
3- 1 Driveways, etc., Moline, Ill. 1-13
3-15 Roads, Gordon, Ala. 1-13

Miscellaneous.

1-21 Tile drain, Des Moines, Iowa. 1-20
1-21 Drainage, Hampton, Iowa. 1-20
1-21 Ditch, Forest City, Iowa. 1-13
1-21 Drain, Boone, Iowa. 1-13
1-22 Ditch, Fort Wayne, Ind. 1-13
1-22 Ditches, Grand Falls, Tex. 12-30
1-22 Levee embankment, etc., Caldwell, Tex. 12-30
1-24 Rail sections, etc., Panama. 1-13
1-25 Ditch, Council Bluffs, Iowa. 1-13
1-26 Ditch, Council Bluffs, Iowa. 1-13
1-26 Athletic field, etc., Baltimore, Md. 1-20
1-27 Jetties dikes, New York. 12-23
1-28 Cement, Ottawa, Ont. 1-20
1-29 Ditch, Tampico, Ill. 1-20
1-29 Railing, Boston, Mass. 1-13
2- 1 Monuments, Ottawa, Ont. 10-21
2- 2 Tile drain, Des Moines, Iowa. 1-20
2- 3 Ditch, Fort Dodge, Iowa. 1- 6
2- 3 Ditch, Hartford City, Ind. 1-13
2- 5 Ditch, Smartville, Cal. 1-13
2- 7*Valve chambers, etc., Panama. 1-13
2-15 Torpedo boats, Washington, D. C. 12-23
4-30 Ditch, Olivia, Minn. 12-23

Examinations.

1-22 Water analyst, Albany, N. Y. 1- 6
1-22 Steam Engr., Albany, N. Y. 1- 6
1-22 Director of Laboratories, Albany, N. Y. 1- 6
1-22 Deputy Factory Inspector, Albany, N. Y. 1- 6
1-22 Bridge Draftsman, Albany, N.Y. 1- 6
1-22 Bridge Designer, Albany, N. Y. 1- 6
1-22 Asst. Superv. of Equip., Albany, N. Y. 1- 6
1-22 Asst. Bacterioligist, Albany, N.Y. 1- 6
1-26 Draftsman, Philadelphia, Pa. 1- 6
2- 2 Engr. and Plumber, Wash., D. C. 1- 6
2- 2 Junior topographer, Wash., D. C. 1-20
2- 2 Asst. assayer, Kansas City, Mo. 1-20
2-16 Computer, Philippines 1-20
2-16 Hydraulic engr., Wash., D. C. 1-20
2-16 Topographic aid, Wash., D. C. 1-20
2-16 Asst. geologist, Wash., D. C. 1-20
2-21 Rodman, New York 1-20
2-28 Transitman, New York 1-20

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.		Sec issue.
1-20	Railing, Boston, Mass.	(S)	1-13
1-20	Paving, Charleston, S. C.	(S.)	1-13
2-10	Quarters, Bremerton, Wash.	(S.)	1-13

MILLIKEN BROTHERS, INC., Milliken, S. I., N. Y., announce the termination of the Receivership, and the restoration to the company of the entire plant, with all assets. The new officers and Board of Directors have taken immediate control.

ERNST WIENER COMPANY, 30 Church St., New York, N. Y., announce the opening of new offices in Petersburg, Va., Ocala, Fla., Toronto, Ont., Can., Mexico City, Mex.; also change in address of some former offices. New address, Los Angeles, 223 W. H. Hellman Bldg.; Philadelphia, 1103 Land Title Bldg.; San Francisco, 112 Market St.

THE WATSON-STILLMAN CO. has made several additions to its sales department to handle the increasing business in hydraulic tools and turbine pumps. Edwin Stillman is assisting in the case of New York State customers, with Frank C. Clark in charge of all Southern railroad business. F. W. Horn, the well-known machinery importer of Yokohama, Japan, will have charge of the business in the Orient.

THE ARTHUR KOPPEL CO. announces its consolidation with the Orenstein & Koppel Co., new title to be The Orenstein-Arthur Koppel Co. The combined corporation has a capital of $6,500,000, with a surplus of $2,000,000, and claims to be the largest company in the world for designing, installing and manufacturing of narrow gage railways, viz.: Portable railways, industrial railways, narrow gage sidings, narrow gage public railways and railway equipments of all kinds. The capacity of the plant at Koppel, Pa., has been enlarged in order to meet the increased demand of their products.

THE BRUCE-MACBETH ENGINE CO., of Cleveland, is about to install for the Municipal Lighting Plant of the City of Canal Dover, Ohio, one of their 250-HP. vertical 4-cylinder gas engines, direct connected to 175-KW. alternating current generator. They have sold a duplicate of this engine to The Willard Storage Battery Co., Cleveland, making the fourth engine they have installed at that plant. Through their Buffalo representatives, The Sterns Electric Equipment Co., they have sold one of the 250-HP., 4-cylinder engines to The E. R. Thomas Motor Co., Buffalo, making the fourth engine they have installed at this plant. They also report a fourth sale of an 135-HP., 4-cylinder engine to The Monongah Glass Co., Fairmount, W. Va.

TRADE PUBLICATIONS.

WATER CLOSET SEATS AND TANKS.—H. W. Johns-Manville Co., 100 William St., New York City. Paper; 3½ × 6 ins.; pp. 8; illustrated.

"Sanitor" seats and tanks are made in one piece from indurated fibre. This material is practically non-porous and not affected by moisture. No lining is required in the tanks. It is claimed that this material will not swell, shrink, warp, crack or sweat. By a mechanical process, an oak or mahogany grain is transferred to the fibre so perfectly that these seats and tanks can not readily be distinguished from wooden ones.

GASOLINE LOCOMOTIVES.—Milwaukee Locomotive Mfg. Co., Milwaukee, Wis. Paper; 6 × 9 ins.; pp. 28; illustrated.

These locomotives are for use on construction and contract work, industrial railways, etc. A steel underframe mounted on two axles carries the engine and machinery and is surmounted by a cab. Both axles are driven by roller-chains and sprocket wheels. The small locomotives have 15-HP. engines and weigh 2½ tons, while the large ones have 100-HP. engines and weigh 16 tons. A special locomotive is built for use in mines. The illustrations show the mechanism, and show also the engines in use for switching work and hauling a tower car for stringing the wires of an electric railway.

REFERENCE BOOK FOR IRON, STEEL AND MACHINERY.—Joseph T. Ryerson & Con, Chicago. Paper; 4¼ × 7 ins.; pp. 380; illustrated.

This contains lists of rolled shapes, plates, rivets, bars, boiler tubes, etc., with the amount in stock at the company's plant. There are also lists of steel roofing and siding, joist hangers, boiler manholes and fittings, wire rope, gaskets, bolts and nuts, and other materials. Prices are given in some cases. Following this are several pages listing boiler shop and sheet-metal shop tools and appliances, machine tools, hoists, etc. Nearly 100 pages are devoted to specifications for steel, gages for thickness, weights and dimensions of shapes and plates, safe loads for beams, contents of mills and other miscellaneous useful information.

CONCRETE MIXER AND COLLAPSIBLE MOLDS.—C. W. Overturf & Co., Dumont, Iowa. Paper; 5¼ × 7¾ ins.; pp. 16; illustrated.

The Overturf concrete mixer is of the horizontal drum type, and has as two of its distinguishing features (1) the placing of the drum at a height of only 2 ft. above the ground, and (2) the use of vibrating arms which continually rap or strike the drum and thus prevent the concrete from sticking. The drum is 22 ins. diameter and 8 ft. long, fitted with mixing blades, and is driven by a sprocket chain from a gasoline engine of 2 HP., mounted on the same frame with the mixer. The Overturf collapsible steel molds are for making concrete culverts, sewers, drains, etc., or cylindrical foundation piers for bridges. There are illustrations of some of the culverts built in this way, and testimonials as to the molds, culverts and concrete mixers.

PIPE FITTINGS.—National Tube Co., Pittsburg, Pa. Catalog H. Leather; 5 × 7½ ins.; pp. 470; illustrated.

This catalog, attractively bound in black leather, is printed throughout on a heavy grade of paper in black and dull green ink. The green ink is said to have been chosen, after experiment, because it was found to be the most restful to the eye of the several colors tested. The illustrations are for the most part from retouched photographs. Line cuts are used only in connection with tables of dimensions. In the pages devoted to the "Kewanee" union, the brass parts are shown in a realistic brass-colored ink.

A good index, in a catalog of this sort and size, is one of the most essential features and this need has been well met. The index occupies 27 pages, and there is added a brief table of contents in which the articles cataloged are classified under the following headings: Standard goods, medium pressure goods, extra heavy goods, hydraulic goods, tubular goods and specialties.

ELECTRIC LAMPS.—General Electric Co., Schenectady, N. Y. Miscellaneous leaflets. Paper; illustrated.

Four small leaflets varying from 3 × 6 to 5 × 8 ins. in size have been put out by this company to describe its lighting specialties. Folder 3884 compares small tungsten and carbon sign lamps, and shows the advantages and economies derived by the use of the former. It describes also ways in which an ordinary sign may be made over into an illuminated sign.

Folder 3880 shows what is called the "intensified" arc lamp. This lamp has very small carbons so that the whole of the carbon tips, as well as the arc crater, become luminous. The "intensified arc" lamp gives considerably more light than the ordinary enclosed-arc type. Its distribution is arranged so as to be particularly suited for stores and large interiors. With a single trimming it burns from 50 to 100 hours. The casings are made with various styles of ornamentation.

Pamphlet 3874 shows the line of small tungsten lamps which are recommended for use on various automobiles—electric or gasoline. On the latter type of cars a storage battery is necessary.

Pamphlet 3885 is entitled "A New Era in Lighting." It shows the use of tungsten, tantalum and Gem carbon lamps in various sorts of interiors, and suggests the means with which ordinary lighting arrangements may be made.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 28.

RIFLE RANGE.

Albany, N. Y.

Sealed proposals for construction, grading, telephones and scorers' desks for the N. Y. State Rifle Range, Blauvelt, N. Y., will be received by the State Board of Armory Commissioners, Capitol, Albany, N. Y., until twelve o'clock noon on Thursday, February tenth, 1910, when they will be opened and read publicly.

Proposals shall be accompanied by certified checks as follows: construction, $6,000; telephones, $600; scorers' desks, $100; and the contractors to whom the awards are made will be required to furnish surety company bonds in the following amounts: Construction, $60,000; telephones, $6,000; within 30 days after official notice of award of contract and in accordance with the terms of specifications Nos. 1318 and 1325. The right is reserved to reject any and all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the office of the Superintendent of the State Rifle Range, Blauvelt, N. Y., and at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to and in the discretion of the State Architect, Franklin B. Ware.

State Board of Armory Commissioners,
F. A. McNEELY, Secretary.

DAM AND SPILLWAY, ETC.

Dallas, Tex.

Sealed bids will be received at the office of the undersigned until 3 o'clock P. M., February 16th, 1910, for constructing the foundation for the Pumping Station, building the Dam, Spillway and other appurtenances at the White Rock Reservoir Site, in strict accordance with plans and specifications on file in said office. A certified check for $5,000.00 will be required with each proposal, as a guarantee that the successful bidder will enter into a contract with the city. The said certified check of the unsuccessful bidders will be returned upon the awarding of the contract to the successful bidder. The check of the successful bidder will be retained by the City of Dallas until contract has been entered into. If the successful bidder should fail or refuse to enter into contract, after the award is made, said check of $5,000.00 will be retained by and become the property of the City of Dallas. All non-resident bidders, before receiving a set of the plans and specifications, shall deposit with the undersigned the sum of $10.00 conditioned that said specifications and plans will be returned within a reasonable time in proper form.

The City reserves the right to reject any or all bids.

Envelopes must be marked "Bids on Dam and Spillway," etc.

J. B. WINSLETT,
City Secretary.
Dallas, Texas.

MUNICIPAL CIVIL SERVICE COMMISSION.
299 Broadway, New York.
January 10, 1910.

PUBLIC NOTICE IS HEREBY GIVEN that applications will be received from MONDAY, JANUARY 10, UNTIL 4 P. M. MONDAY, JANUARY 24, 1910, for the position of

RODMAN.

(No application received by the Commission, by mail or otherwise, after 4 P. M. on January 24 will be accepted.)

The examination will be held on Monday, February 21, 1910, at 10 A. M.

The subjects and weights are. Technical, 6; Mathematics, 2; Experience, 2 The percentage required is 75 on technical paper and 70 on all.

The salaries of this position range from $900 to $1,200 per annum.

Vacancies: None at present.

Minimum age: 18 years.

Application blanks can be obtained at 299 Broadway, Room 1119.

F. A. SPENCER, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION.
299 Broadway, New York.
January 12, 1910.

PUBLIC NOTICE IS HEREBY GIVEN that applications will be received from WEDNESDAY, JANUARY 12, until 4 P. M. WEDNESDAY, JANUARY 26, 1910, for the position of

TRANSITMAN.

(No application received by the Commission, by mail or otherwise, after 4 P. M. on January 26 will be accepted.)

The examination will be held on Monday, February 28, 1910, at 10 A. M.

The subjects and weights are. Technical, 5; Mathematics, 3; Experience, 2. The percentage required is 75 on technical paper and 70 on all.

Vacancies: None at present.

Salaries range from $1,200 to $2,100 per annum.

Minimum age—21 years.

Application blanks can be obtained at 299 Broadway, Room 1119.

F. A. SPENCER, Secretary.

TREASURY DEPARTMENT. Office of the Supervising Architect. Washington, D. C., January 17, 1910.—The advertisement for bids for the construction of the Post Office and Court House building at Denver, Colorado, dated December 29, 1909, is corrected and the time for opening bids extended as follows: Sealed proposals will be received at this office until 3 o'clock P. M. on the 15th day of March, 1910, and then opened for the construction, including plumbing and drainage, of the U. S. Post Office and Court House at Denver, Colo., in accordance with drawings and specification, copies of which may be had at this office or at the office of the architects, Messrs. Tracy, Swartwout & Litchfield, 244 Fifth Avenue, New York City, at the discretion of the Supervising Architect. Applications must be accompanied by a certified check for $250, which will be held at this office until the return of the drawings and specifications. JAMES KNOX TAYLOR, Supervising Architect.

TREASURY DEPARTMENT. Office of the Supervising Architect, Washington, D. C., Jan. 18, 1910.—Notice is hereby given that the time for opening bids for the construction of an extension, etc., except elevator (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and standard clock system), at the U. S. Post Office and Court House at Lynchburg, Virginia, has been extended from February 10, 1910, to March 3, 1910. JAMES KNOX TAYLOR, Supervising Architect.

TREASURY DEPARTMENT. Office of the Supervising Architect, Washington, D. C., Jan. 18, 1910.—Notice is hereby given that the time for opening bids for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of an extension to the U. S. Post Office at Goldsboro, North Carolina, has been extended from January 31, 1910, to February 25, 1910. JAMES KNOX TAYLOR, Supervising Architect.

Situations Open

WE REQUIRE a competent foreman for our foundry near Cincinnati, capacity about 8 tons daily, producing agricultural machinery and some loam castings. The successful applicant must have had previous experience as a foundry foreman, and in applying should state age, previous experience where at present employed and salary desired. Address "W. A. 2." Engineering News, New York. 2-2t

A MACHINE SHOP FOREMAN can secure a good position by advising the undersigned. We require the applicant to be a first-class mechanic, to have had previous experience as a foreman and to be young enough to adapt himself to the particular requirements of our business, located in Cincinnati. When applying, state fully age, previous experience, where at present employed and salary desired. Address "S. A. 2," Engineering News, New York. 2-2t

Miscellaneous Wants

STRUCTURAL AND ORNAMENTAL details and designs furnished by responsible parties connected with large New York concern, in their spare time; charges moderate. Address "B. B. 3," Engineering News, New York. 3-2t

EXPERIENCED DRAFTSMAN, technical graduate, desires work for spare time; reasonable charges. Address "D. A. 23," Engineering News, New York. 3-tf

RAILROAD MAN leaving New York March for six months tour east and west coast South American cities would undertake commissions. Address "P. B. 3," Engineering News, New York. 3-2t

SUB-BIDS WANTED.

The Conners Bros. Co., Lowell, Massachusetts, estimating Minnesota State Prison, to be built at Stillwater, Minnesota, also Lynchburg, Va., Post-Office, also Denver, Colorado, Post-Office, and desire sub-bids. 3-1t

FOR SALE

IMMEDIATE DELIVERY.

Ten Miles of Track

80 lb. A. S. C. E.

Illinois Steel Co. New Rail at St. Louis. Wire your amounts wanted.
P. W. JONES,
9th Ave S. and 3d St., Minneapolis, Minn. 3-1t

PIPE

SECOND-HAND, For SALE

10,000 ft. 6" second-hand iron pipe, lengths of 18 ft. up, flanged both ends, and in very good condition, at a very attractive price. We also have on hand all sizes second-hand pipe and boiler tubes. Correspondence solicited. EAGLE METAL & SUPPLY CO., Roebling St., Brooklyn, N. Y. 3tf

FOR SALE.

Buff and Buff Transit

First-class condition; level bubble on telescope, inverting lens, fixed stadia wires, gradienter, vertical arc, horizontal graduations on silver, reading to minutes. Address "C. B. 3," Engineering News, New York. 3-1t

Reinhardt's
TECHNIC OF MECHANICAL DRAFTING
Shows *how* to do it right Price, $1.00

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